

LegalStream Australia Pty Ltd

ABN: 80 002 801 498
Level 10, 135 King Street, SYDNEY NSW 2000, AUSTRALIA * DX654, SYDNEY
Tel: (02) 9231 0122 Fax: (02) 9233 6411 www.legalstream.com.au

An Approved
LPI NSW
Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/11/2007 5:47PM

FOLIO: 72/818981

First Title(s): OLD SYSTEM

Prior Title(s): 5/774130

Recorded	Number	Type of Instrument	C.T. Issue
3/8/1992	DP818981	DEPOSITED PLAN	FOLIO CREATED EDITION 1
1/10/1992	E799640	WITHDRAWAL OF CAVEAT	
1/10/1992	E799641	WITHDRAWAL OF CAVEAT	
22/9/1993	I378527	REQUEST	
22/9/1993	I356058	REQUEST	
22/9/1993	I378525	APPLICATION	EDITION 2
8/12/1995	0738097	REQUEST	EDITION 3
25/8/1997	3350461	DEPARTMENTAL DEALING	
29/8/1997	DP870992	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***

oitmaa

PRINTED ON 20/11/2007

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WARNING: THE INFORMATION APPEARING UNDER NOTATIONS HAS NOT BEEN FORMALLY RECORDED IN THE REGISTER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

20/11/2007 5:45PM

FOLIO: 88/870992

First Title(s): OLD SYSTEM

Prior Title(s): 72/818981 102/849975

Recorded	Number	Type of Instrument	C.T. Issue
1/9/1997	DP870992	DEPOSITED PLAN	FOLIO CREATED EDITION 1
20/3/1998	3856206	LEASE	EDITION 2
30/12/1999	6461218	DEPARTMENTAL DEALING	
30/12/1999	6451582	REQUEST	EDITION 3
25/1/2002	8208818	APPLICATION	EDITION 4
5/6/2002	8631290	TRANSFER OF LEASE	
5/6/2002	8631291	SUB-LEASE	EDITION 5
2/2/2004	AA22827	REQUEST	
15/12/2005	AB885870	APPLICATION	
21/9/2007	AD419866	REQUEST	

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 88/870992

SEARCH DATE	TIME	EDITION NO	DATE
20/11/2007	5:45 PM	5	5/6/2002

LAND

LOT 88 IN DEPOSITED PLAN 870992
AT HOMEBUSH
LOCAL GOVERNMENT AREA AUBURN
PARISH OF CONCORD COUNTY OF CUMBERLAND
TITLE DIAGRAM DP870992

FIRST SCHEDULE

SYDNEY OLYMPIC PARK AUTHORITY (AP 8208818)

SECOND SCHEDULE (7 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS (SEE SEC. 134 PUBLIC WORKS ACT, 1900)
AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 2 J886627 LAND EXCLUDES MINERALS (SEE SEC. 141 PUBLIC WORKS
ACT, 1912) AFFECTING THE PART SHOWN SO BURDENED IN THE
TITLE DIAGRAM
- 3 L827059 RIGHT OF WAY 20.115 WIDE APPURTENANT TO THE LAND
ABOVE DESCRIBED AFFECTING LOTS 11 & 12 IN DP839591 &
LOTS 10, 14 & 15 IN DP778665
- 4 DP818981 EASEMENT FOR ELECTRICITY PURPOSES 2 WIDE AFFECTING
THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 5 DP818981 EASEMENT FOR WATER DETENTION 20 WIDE AFFECTING THE
PART SHOWN SO BURDENED IN THE TITLE DIAGRAM
- 6 3856206 LEASE TO SAMSUNG ELECTRONICS AUSTRALIA PTY LIMITED
EXPIRES: 29/10/2006. OPTION OF RENEWAL: 99 YEARS.
8631290 TRANSFER OF LEASE 3856206 LESSEE NOW GPT
MANAGEMENT LIMITED
8631291 LEASE OF LEASE 3856206 TO SAMSUNG ELECTRONICS
AUSTRALIA PTY LIMITED EXPIRES: 2/5/2008. OPTION OF
RENEWAL: 4 YEARS.
* AB885870 APPLICATION AFFECTING LEASE 3856206 LESSEE NOW
GPT RE LIMITED
- 7 DP831539 EASEMENT FOR SERVICES 17 METRE(S) WIDE AND VARIABLE
APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE
LAND DESIGNATED (P) IN DP831539
6451582 RELEASED IN SO FAR AS IT AFFECTS LOTS 5200 &
5201 IN DP1009021

END OF PAGE 1 - CONTINUED OVER

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 88/870992

PAGE 2

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

NOTE: 1997M8 SYDNEY SHOWGROUND & OLYMPIC SITE REFER TO ND13
UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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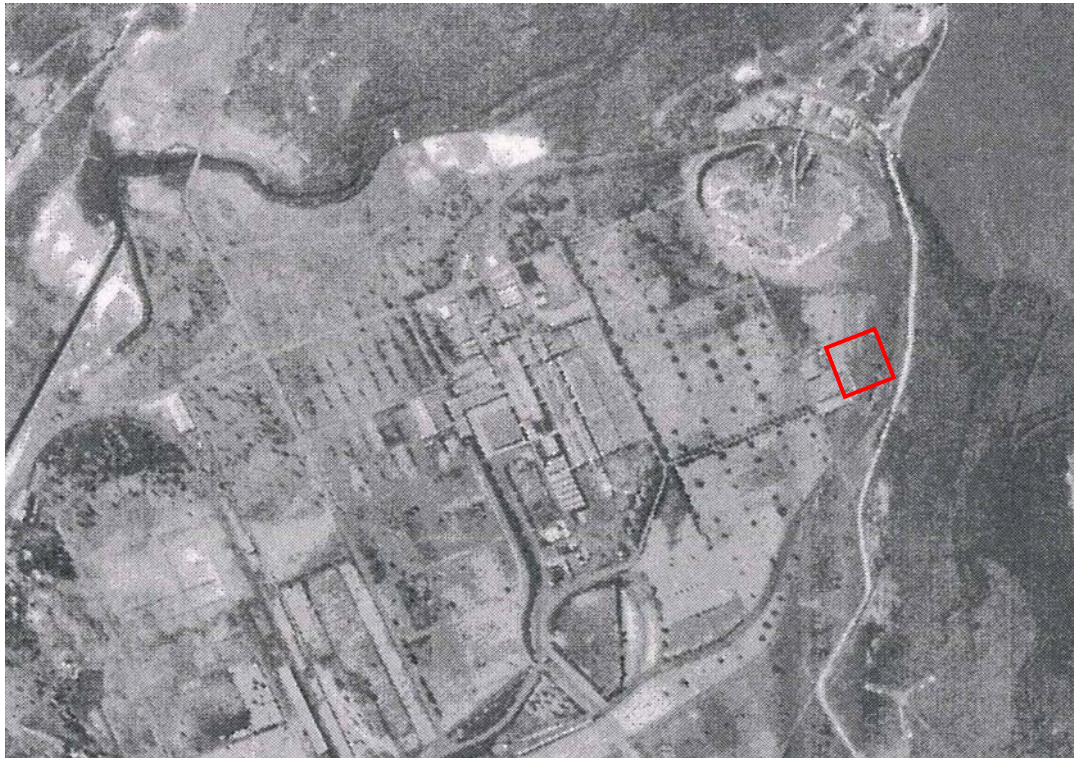


Photo 1: Aerial photo from 1949



Photo 2: Aerial photo from 1951



Historical Photographs
3 Murray Rose Avenue
Sydney Olympic Park

CLIENT: Lend Lease

PROJECT: 45153.02

PLATE No: 1

REV: 0

DATE: 3-Aug-12



Photo 3: Aerial photo from 1961



Photo 4: Aerial photo from 1965



Historical Photographs

3 Murray Rose Avenue

Sydney Olympic Park

CLIENT: Lend Lease

PROJECT: 45153.02

PLATE No: 2

REV: 0

DATE: 3-Aug-12



Photo 5: Aerial photo from 1970



Photo 6: Aerial photo from 1982



Historical Photographs

3 Murray Rose Avenue

Sydney Olympic Park

CLIENT: Lend Lease

PROJECT: 45153.02

PLATE No: 3

REV: 0

DATE: 3-Aug-12



Photo 7: Aerial photo from 1991



Photo 8: Aerial photo from 1998



Historical Photographs

3 Murray Rose Avenue

Sydney Olympic Park

CLIENT: Lend Lease

PROJECT: 45153.02

PLATE No: 4

REV: 0

DATE: 3-Aug-12



Photo 9: Aerial photo from 2012



Historical Photographs
3 Murray Rose Avenue
Sydney Olympic Park

CLIENT: Lend Lease

PROJECT: 45153.02

PLATE No: 5

REV: 0

DATE: 3-Aug-12

Rate
this
site



Environment
& Heritage



You are here: [Home](#) > [Contaminated land](#) > [Record of notices](#)

Search results

Your search for: LGA: Auburn Council

Matched 58 notices relating to
12 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
Auburn	Short and Junction Streets	Ajax Chemical Factory	2 former
Homebush Bay	Olympic Boulevard	Aquatic Centre Car Park	1 current and 8 former
Homebush Bay	Bennelong Road	Bicentennial Park	1 current and 2 former
Homebush Bay	Hill Road	Haslams Creek South Area 3	1 current and 3 former
Homebush Bay	Kevin Coombs Avenue	Haslams Creek South Areas 1 and 2	1 current and 13 former
Homebush Bay	No specific Street	Homebush Bay General Area	2 former
Homebush Bay	Australia Avenue	State Sports Centre	1 current and 6 former
Homebush Bay	25 Bennelong Road	Timber Treatment Plant	4 former
Newington	Bennelong Road	Landfill - North Newington	2 current and 3 former
Silverwater	Jamieson Street	Auburn Landfill	2 current and 2 former
Silverwater	Jamieson Street	Silverwater Transport Unit	1 former
Silverwater	Silverwater Road	Wilson Park	4 current and 6 former

Page 1 of 1

3 August 2012

DOUGLAS PARTNERS

26 OCT 2010

Our Ref: D10/144458

Your Ref: Tim Carrick

25 October 2010

Attention: Caitlyn Falla/Scott Easton
Douglas Partners Pty Ltd
PO Box 472
West Ryde NSW 1685

Dear Mr Choo,

RE SITE: 7 Parkview Drive Sydney Olympic Park

I refer to your site search request received by WorkCover NSW on 22 October 2010 requesting information on licences to keep dangerous goods for the above site.

A search of the Stored Chemical Information Database (SCID) and the microfiche records held by WorkCover NSW has not located any records pertaining to the above-mentioned premises.

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely



Brent Jones

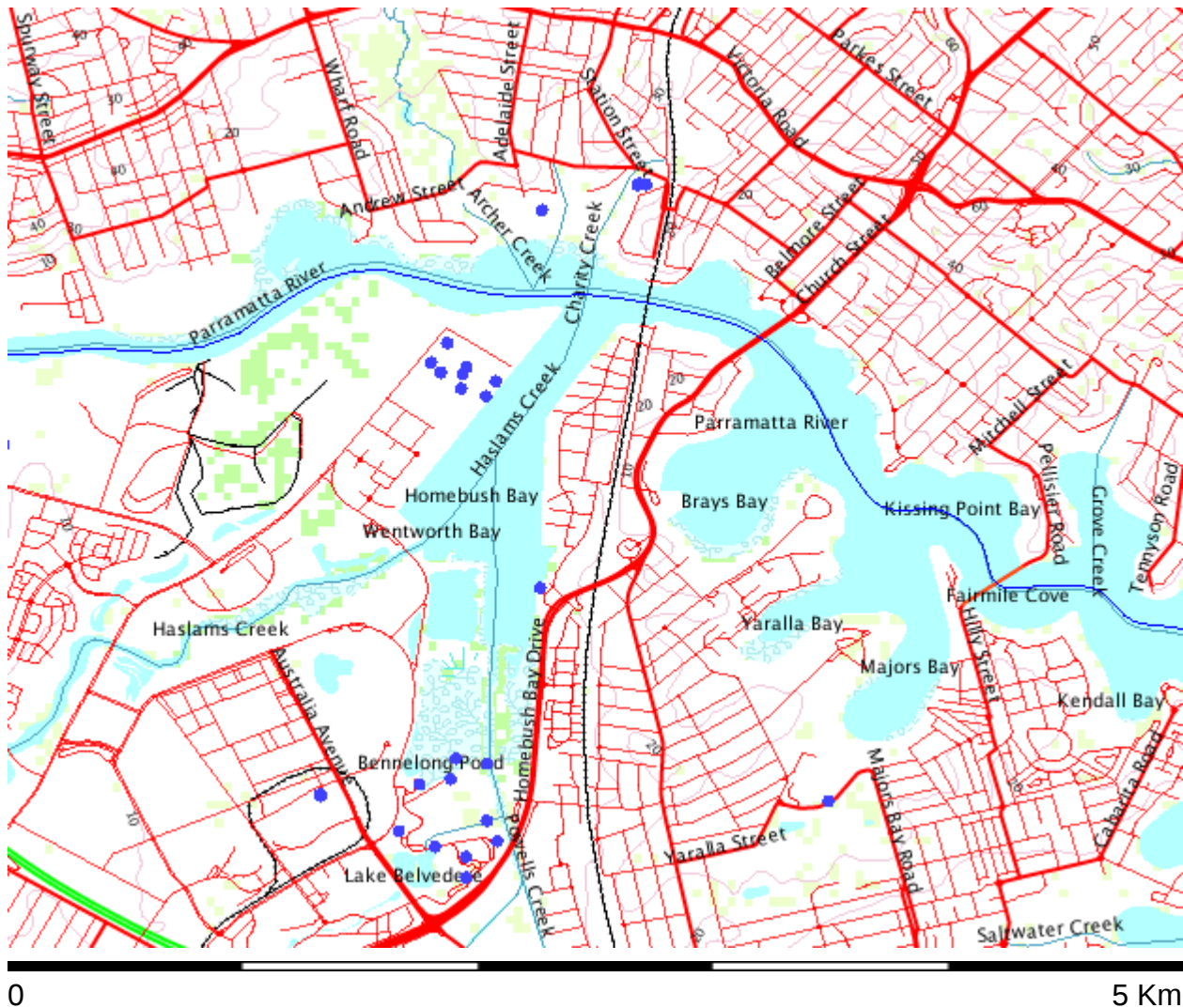
Senior Licensing Officer
Dangerous Goods Team

WorkCover. **Watching out for you.**

3 Murray Rose Avenue, Sydney Olympic Park

Map created with NSW Natural Resource Atlas - <http://www.nratlas.nsw.gov.au>

Friday, August 03, 2012



Legend

Symbol	Layer	Custodian
	Cities and large towns	renderImage: Cannot build image from features
	Populated places	renderImage: Cannot build image from features
	Towns	
	Groundwater Bores	
	Catchment Management Authority boundaries	
	Major rivers	

Topographic base map



Copyright © 2012 New South Wales Government. Map has been compiled from various sources and may contain errors or omissions. No representation is made as to its accuracy or suitability.

RE: SWMS & Certification for VENM

Jim Theodore [jim@tbagroup.com.au]

Sent: Friday, February 17, 2012 3:22 PM**To:** D'Onofrio, Julian**Attachments:** @ (65 B)

Julian,

As per attached classification, the material that we are bring onto the site is from the UNSW – Wallace Wurth Redevelopment project. Any problems, please let me know.

Cheers,

Jim Theodore | | **TBA Pty Ltd**

T 61 2 8399 0566 | M 61 402 107 309 | F 61 2 8399 2923

Suite 3/ 52-54 McEvoy Street, Waterloo 2017

jim@tbagroup.com.au

 Please consider the environment before printing this e-mail

From: D'Onofrio, Julian [mailto:Julian.donofrio@lendlease.com]

Sent: Thursday, 16 February 2012 5:02 PM

To: Jim Theodore

Subject: SWMS & Certification for VENM

Jim,

Can you please send through SWMS for works to Link Road.

Can you also send through a certified letter stating that the material being brought to site tomorrow is completely VENM. We require this letter urgently.

Thanks,

Julian

Julian D'Onofrio | 7 Parkview Drive, Sydney Olympic Park | Project Management & Construction | **Lend Lease**

T +61 2 9397 5404 | M +61 413 932 808 | F +61 2 9397 5444

7a Parkview Drive, Sydney Olympic Park, NSW Australia 2127

julian.d'onofrio@lendlease.com.au www.lendlease.com.au

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<< ES4605 AA UNSW VENM.pdf (292.1KB)
(292.1KB)
>>

RE: VENM Letter - Rhodes Fill

Jim Theodore [jim@tbagroup.com.au]

Sent: Wednesday, February 22, 2012 12:31 PM**To:** D'Onofrio, Julian**Attachments:** @ (65 B)

Julian,

The VENM material arriving to your site has been classed as VENM, as the attached report indicates. Any problems, please let me know.

Cheers,

Jim Theodore | | **TBA Pty Ltd**

T 61 2 8399 0566| M 61 402 107 309| F 61 2 8399 2923

Suite 3/ 52-54 McEvoy Street, Waterloo 2017

jim@tbagroup.com.au



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<<

ES4681 Rhodes VENM.pdf (355.4KB)

(355.4KB)

>>



Environmental - Remediation - Engineering - Laboratories - Drilling

22nd September 2011

Our Ref: ES4605 - AA

Theos Bros. (Aust.) Pty Ltd

PO Box 1099

ROCKDALE NSW 2216

By Email: john@tbagroup.com.au

Dear John,

Re: Virgin Excavated Natural Material (VENM)

Site: University of New South Wales (UNSW)

Corner of Botany Street and High Street, Kensington NSW

Aargus Pty Ltd was appointed by Theos Bros. (Aust.) Pty Ltd to conduct visual and analytical assessment of natural soil to be excavated as Virgin Excavated Natural Material (VENM) from the UNSW grounds on the corner of Botany Street and High Street, Kensington (the site”).

For the natural materials located within the site that are to be re-used on site, the NEPM *Health Investigation Levels* must be met. Health based guidelines refer to different land uses (residential, recreational, commercial, etc). Other guidelines that are used within this assessment include the NSW EPA refers to the NSW EPA (1994) “*Guidelines for Assessing Services Station Sites*” and the NSW EPA (2006) *Guidelines for the NSW Site Auditor Scheme*. For off-site disposal to landfill, the NSW Office of Environment & Heritage (OEH) refers to the “*Waste Classification Guidelines, Part 1: Classifying Waste*” NSW DECC (2009).

HEAD OFFICE: PO Box 398 Drummoyne NSW 1470

Telephone: 1300 137 038 Facsimile: 1300 136 038 Email: admin@aargus.net Website: www.aargus.net
Aargus Pty Ltd ACN 063 579 313 Aargus Engineering Pty Ltd ACN 050 212 710 Aargus Laboratories Pty Ltd ACN 086 993 937

Other office locations in NSW - QLD - VIC - SA and 4 overseas countries

Aargus staff visited the site on 16th September 2011, at which time one borehole was drilled and natural material was evident. Approximately 2,000m³ of natural material will be transported off-site. This soil classification refers to the natural underlying material from the site only. Topsoil and fill material do not form a part of this classification and are to be disposed of appropriately.

Following the laboratory analysis and with reference to NSW EPA guidelines, the natural materials have concentrations that were below the threshold values for HIL 'A', 'D', 'E' & 'F' as outlined by NEPM *Health Investigation Levels*, the NSW Service Station Guidelines and the PPBIL. The natural underlying soil in question is classified as **VENM** (Virgin Excavated Natural Material) with reference to the above NSW OEH guidelines. As a result of this classification the material can be disposed of as per Schedule 1 Part 3 of the *Protection of the Environment Operations Act 1997*.

The Protection of the Environment Operations Act 1997 defines VENM as:

'natural material (such as clay, gravel, sand, soil or rock fines):

- that has been excavated or quarried from areas that are not contaminated with manufactured chemicals or process residues, as a result of industrial, commercial, mining or agricultural activities, and
- that does not contain any sulfidic ores or soils or any other waste.'

No other criteria for VENM have been approved. By definition, VENM cannot be 'made' from processed soils. Excavated material that has been stored or processed in any way cannot be classified as VENM.

As part of this VENM report, Aargus undertook a walkover of the site and took into consideration the following points where applicable:

- Description and quality of the building structure & materials;

- Current operations;
- Waste Management Practices & trade waste;
- Above ground storage tanks;
- Underground Storage Tanks;
- Odours;
- Site vegetation & sealed surfaces;
- Historical operations (if known);
- Former raw materials & transportation (if known);
- Surface water;
- Groundwater (if known); and
- Site Surrounding and their operations.

From inspection of the above details, information was gathered with regards to the property.

The Geological Map of Sydney (Geological Series Sheet 9130, Scale 1:100,000, 1983), published by the Department of Mineral Resources indicates the residual soils within the site to be underlain by Quaternary Age soils consisting of medium to fine grained “marine” sand with podsols.

The soil profile at the site was consistent with the Geological Survey, with some areas excavated and stockpiled exposing the soil profile. Following a visual assessment of the soil profile, the materials to be excavated were found to be fill material to a depth of 0.4m below ground level (BGL), then NATURAL SAND, fine to medium grained, yellow and light brown. It is estimated approximately 2,000m³ of this natural material will be transported off-site as a part of the proposed excavation works. Given the geological profile, it is expected that the natural sand will extend throughout the profile to the maximum depth of excavations.

The site is currently vacant and is to be excavated as part of the proposed extension to UNSW facilities.

No UST's or AST's were visible. No staining or odours were visible at the time of the inspection. There was no evidence of localised oil or chemical spills on any sealed or unsealed areas and this issue does not warrant any concern. Trees and shrubs surrounding the site appeared generally healthy and free from stress. No visible fibro pieces were observed and this issue does not warrant any particular concern.

To determine whether there is a potential for acid sulphate soils to be present within a site, reference was made to the NSW Department of Land & Water Conservation (DLWC) *Acid Sulphate Soil Risk Maps* (Edition Two, December 1997, Scale 1:250,000), in particular map number "93- Botany Bay", indicates a no known occurrence of acid sulphate soils within the area of the site.

The site was surrounded by High Street to the north, Botany Street to the east and UNSW grounds and facilities to the south the west. On site migration of surface waters from neighbouring properties is not considered a cause for concern.

One (1) sample was collected and was representative of the material found within the proposed works area. The sample was analysed for a range of the following analytes: heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn), Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylene (BTEX) and Polycyclic Aromatic Hydrocarbons (PAHs).

A summary of chemical analyses is provided with the guidelines (both re-use and classification) in Tables A, B and C.

TABLE A
HEAVY METALS TEST RESULTS

Analyte	HEAVY METALS (mg/kg)							
	ARSENIC	CADMIUM	CHROMIUM	COPPER	NICKEL	LEAD	ZINC	MERCURY
Sample Location	Depth (m)							
BH2	1							
	<1	<0.1	4.1	<2	<1	32	<5	<0.05
Practical Quantitation Limits (PQL)	1	0.1	2	2	1	2	5	0.05
Waste Criteria - Total Concentration (w/o TCLP)								
CT1 - General Solid Waste	100	20	100	-	40	100	-	4
CT2 - Restricted Solid Waste	400	80	400	-	160	400	-	16
Waste Criteria - Total Concentration (with TCLP)								
SCC1 - General Solid Waste	500	100	1900	-	1050	1500	-	50
SCC2 - Restricted Solid Waste	2000	400	7600	-	4200	6000	-	200
GUIDELINES FOR THE NSW								
SITE AUDITOR SCHEME (2006)								
Provisional Phytotoxicity-Based Investigation Levels	20	3	400/1 ^e	100	60	600	200	1
NATIONAL ENVIRONMENT PROTECTION MEASURE (1999)								
Health Investigation Levels (HIL) ^a (HIL 'A')	100	20	12%/100 ^f	1000	600	300	7000	10/15 ^g
HIL 'D' ^b	400	80	48%/400	4000	2400	1200	28000	40/60
HIL 'E' ^c	200	40	24%/200	2000	600	600	14000	20/30
HIL 'F' ^d	500	100	60%/500	5000	3000	1500	35000	50/75

- Notes
- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP)
 - 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
 - a: Residential with gardens and accessible soil including children's day-care centres, preschools, primary schools, townhouses and villas.
 - b: Residential with minimal opportunities for soil access, including high-rise, apartments and flat
 - c: Parks, recreational open space and playing fields, including secondary schools
 - d: Commercial or industrial development
 - e: 400mg/kg for Chromium (+3) and 1mg/kg for Chromium (+6). Chromium (Cr) may exist in a number of states. Cr (+6) is easily reduced to form the most stable Cr (+3) whenever exposed to the atmosphere. Therefore Cr (+3) is adopted for this assessment.
 - f: 12% (120000mg/kg) for Chromium (+3) and 100mg/kg for Chromium (+6).
 - g: 10mg/kg for Methyl Mercury and 15mg/kg for Inorganic Mercury.

TABLE B
TOTAL PETROLEUM HYDROCARBONS (TPH) AND BTEX TEST RESULTS

Analyte	TPH (mg/kg)					BTEX (mg/kg)			
	C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 ^a	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
Sample Location	Depth (m)								
BH2	1								
	<10	<50	<100	<100	<250	<0.5	<0.5	<0.5	<1
Practical Quantitation Limits (PQL)	10	50	100	100	NA	0.5	0.5	0.5	1
Waste Criteria - Total Concentration (w/o TCLP)									
CT1 - General Solid Waste	NA	-	-	-	NA	10	288	600	1000
CT2 - Restricted Solid Waste	NA	-	-	-	NA	40	1152	2400	4000
Waste Criteria - Total Concentration (with TCLP)									
SCC1 - General Solid Waste	650	-	-	-	10000	18	518	1080	1800
SCC2 - Restricted Solid Waste	2600	-	-	-	40000	72	2073	4320	7200
EPA Levels^b	65	C10-C36 =1000				1	1.4	3.1	14

- Notes
- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP).
 - 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
- a: C10-C36 = (C10-C14) + (C15-C28) + (C29-C36); concentrations less than PQL are assumed equal to PQL.
- b: Contaminated Sites: "Guidelines for Assessing Service Station Sites", 1994, EPA
- NA: Not Applicable

TABLE C
BENZO(a)PYRENE AND POLYCYCLIC AROMATIC HYDROCARBONS (PAH) TEST RESULTS

Analyte		PAH (mg/kg)	
		BENZO(a)PYRENE (mg/kg)	TOTAL PAH (mg/kg)
Sample Location	Depth (m)		
BH2	0.6	<0.5	<1
Practical Quantitation Limits (PQL)		0.5	NA
Waste Criteria - Total Concentration (w/o TCLP)			
CT1 - General Solid Waste		0.8	NA
CT2 - Restricted Solid Waste		3.2	NA
Waste Criteria - Total Concentration (with TCLP)			
SCC1 - General Solid Waste		10	200
SCC2 - Restricted Solid Waste		23	800
NATIONAL ENVIRONMENT PROTECTION MEASURE (1999)			
Health Investigation Levels (HIL) ^a (HIL 'A')		1	20
HIL 'D' ^b		4	80
HIL 'E' ^c		2	40
HIL 'F' ^d		5	100

- Notes
- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP).
 - 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
- a: Residential with gardens and accessible soil including children's day-care centres, preschools, primary schools, townhouses and villas.
- b: Residential with minimal opportunities for soil access, including high-rise, apartments and flat
- c: Parks, recreational open space and playing fields, including secondary schools
- d: Commercial or industrial development
- NA: Not Applicable

The soil concentrations of the tested analytes, as shown in Tables A, B & C, are within the guidelines for all land uses as outlined by NEPM *Health Investigation Levels*, the NSW EPA (1994) “*Guidelines for Assessing Services Station Sites*” and the *Provisional Phytotoxicity-based Investigation Levels* (PPBIL) of the NSW DEC (2006) Guidelines for the NSW Site Auditor Scheme.

Analysis of the sand materials against criteria for different developments within a site indicates acceptable levels for HIL ‘A’ (residential with accessible soils), HIL ‘E’ (Parks, recreational, open space), HIL ‘D’ (Residential high-rise apartments), or HIL ‘F’ (Commercial/industrial) developments.

With respect to the NSW DECC “*Waste Classification Guidelines, Part 1: Classifying Waste*” (2009), concentrations are below the CT1 criteria as indicated in the Tables above.

With reference to a site walkover, following the laboratory analysis and with reference to NSW EPA guidelines, the natural materials have concentrations that were below the threshold values for HIL 'A', 'D', 'E' & 'F' as outlined by NEPM *Health Investigation Levels*, the NSW Service Station Guidelines and the PPBIL. The natural underlying soil in question is classified as **VENM** (Virgin Excavated Natural Material) with reference to the above NSW OEH guidelines. As a result of this classification the material can be disposed of as per Schedule 1 Part 3 of the *Protection of the Environment Operations Act 1997*.

If any further areas of environmental concern are uncovered during the excavation process, this office should be notified for further assessment. We would be pleased to provide further information on any aspects of this report.

For and on behalf of

Aargus Pty Ltd



Emmanuel Woelders
Environmental Scientist

Reviewed By



Mark Kelly
Environmental Manager



Environmental - Remediation - Engineering - Laboratories - Drilling

21st October 2011

Our Ref: ES4681

Theos Bros (Aust) Pty Ltd

By Email: peter@tbagroup.com.au

Dear Peter

**Re: Virgin Excavated Natural Material (VENM)
Corner of Rider Boulevard and Mary Street, Rhodes NSW**

Aargus Pty Ltd was appointed by Theos Bros (Aust) Pty Ltd to conduct a visual and analytical assessment of natural soil to be excavated as Virgin Excavated Natural Material (VENM) from the corner of Rider Boulevard and Mary Street, Rhodes (the “site”).

For the natural materials located within the site that are to be re-used on site, the NEPM *Health Investigation Levels* must be met. Health based guidelines refer to different land uses (residential, recreational, commercial, etc). Other guidelines that are used within this assessment include the NSW EPA refers to the NSW EPA (1994) “*Guidelines for Assessing Services Station Sites*” and the NSW EPA (2006) Guidelines for the NSW Site Auditor Scheme. For off-site disposal to landfill, the NSW Office of Environment & Heritage (OEH) refers to the “*Waste Classification Guidelines, Part 1: Classifying Waste*” NSW DECC (2009).

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Other office locations in NSW - QLD - VIC - SA and 4 overseas countries

Aargus staff visited the site on 19th October 2011, at which time the natural materials were excavated and stockpiled. Approximately 30,000m³ of natural material will be transported off-site. This soil classification refers to the natural underlying material from the site only. Fill materials do not form a part of this classification and are to be disposed of appropriately.

Following the laboratory analysis and with reference to NSW EPA guidelines, the natural materials have concentrations that were below the threshold values for HIL 'A', 'D', 'E' & 'F' as outlined by NEPM *Health Investigation Levels*, the NSW Service Station Guidelines and the PPBIL. The natural underlying soil in question is classified as **VENM** (Virgin Excavated Natural Material) with reference to the above NSW OEH guidelines. As a result of this classification the material can be disposed of as per Schedule 1 Part 3 of the *Protection of the Environment Operations Act 1997*.

The Protection of the Environment Operations Act 1997 defines VENM as:

'natural material (such as clay, gravel, sand, soil or rock fines):

- that has been excavated or quarried from areas that are not contaminated with manufactured chemicals or process residues, as a result of industrial, commercial, mining or agricultural activities, and
- that does not contain any sulfidic ores or soils or any other waste.'

No other criteria for VENM have been approved. By definition, VENM cannot be 'made' from processed soils. Excavated material that has been stored or processed in any way cannot be classified as VENM.

As part of this VENM report, Aargus undertook a walkover of the site and took into consideration the following points where applicable:

- Description and quality of the building structure & materials;
- Current operations;

- Waste Management Practices & trade waste;
- Above ground storage tanks;
- Underground Storage Tanks;
- Odours;
- Site vegetation & sealed surfaces;
- Historical operations (if known);
- Former raw materials & transportation (if known);
- Surface water;
- Groundwater (if known); and
- Site Surrounding and their operations.

From inspection of the above details, information was gathered with regards to the property.

The Geological Map of Sydney (Geological Series Sheet 9130, Scale 1:100,000, 1983), published by the Department of Mineral Resources indicates the residual soils within the site to be underlain by Triassic Age Shale of the Wianamatta Group, comprising black to dark grey shale and laminite.

The natural material at the site was consistent with the Geological Survey. Following a visual assessment of the soil profile, the materials excavated were found to be coarse gravel capping underlain by a NATURAL Clay SHALE of low plasticity, dark brown to black in colour. Approximately 30,000m³ of this natural clay and shale material will be transported off-site as a part of the proposed development. Given the geological profile, it is expected that clay and shale material will extend throughout the profile to the maximum depth of excavations.

The site was previously occupied by an office block, with the proposed development to include high density residential properties.

No UST's or AST's were visible and no staining or odours were visible at the time of the inspection. There was no evidence of localised oil or chemical spills on any sealed or unsealed areas and this issue does not warrant any concern. Trees and shrubs surrounding the site appeared generally healthy and free from stress. No visible fibro pieces were observed and this issue does not warrant any particular concern.

To determine whether there is a potential for acid sulphate soils to be present within a site, reference was made to the NSW Department of Land & Water Conservation (DLWC) *Acid Sulphate Soil Risk Maps* (Edition Two, December 1997, Scale 1:250,000), in particular a review of the aforementioned map '90' Parramatta / Prospect indicated that there were no known occurrence of acid sulfate soil materials within the soil profile.

The site is bordered by Mary Street to the north, whilst the south are commercial properties. On the eastern perimeter is the railway line followed by high density residential apartments. The high density residential apartments are also observed on the western side of the site, adjacent to Rider Boulevard. On site migration of surface waters from neighbouring properties is not considered a cause for concern.

Four (4) samples were collected and were representative of the material found within the proposed works area. The samples were analysed for a range of the following analytes: heavy metals (As, Cd, Cr, Cu, Pb, Hg, Ni, Zn), Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylene (BTEX), and Polycyclic Aromatic Hydrocarbons (PAHs).

A summary of chemical analyses is provided with the guidelines (both re-use and classification) in Tables A, B and C.

TABLE A
HEAVY METALS TEST RESULTS

Analyte		HEAVY METALS (mg/kg)							
		ARSENIC	CADMIUM	CHROMIUM	COPPER	NICKEL	LEAD	ZINC	MERCURY
Sample Location	Depth (m)								
PH1	0.5	5.1	0.2	<2	25	27	23	120	0.14
PH2	0.5	1.9	0.1	<2	22	28	12	99	0.08
PH3	1	<1	<0.1	<2	7.8	4	4.9	26	0.05
PH4	0.5	<1	<0.1	<2	12	<1	5.1	97	<0.05
Practical Quantitation Limits (PQL)		1	0.1	2	2	1	2	5	0.05
Waste Criteria - Total Concentration (w/o TCLP)									
CT1 - General Solid Waste		100	20	100	-	40	100	-	4
CT2 - Restricted Solid Waste		400	80	400	-	160	400	-	16
Waste Criteria - Total Concentration (with TCLP)									
SCC1 - General Solid Waste		500	100	1900	-	1050	1500	-	50
SCC2 - Restricted Solid Waste		2000	400	7600	-	4200	6000	-	200
GUIDELINES FOR THE NSW SITE AUDITOR SCHEME (2006)									
Provisional Phytotoxicity-Based Investigation Levels		20	3	400/1 ^e	100	60	600	200	1
NATIONAL ENVIRONMENT PROTECTION MEASURE (1999)									
Health Investigation Levels (HIL) ^a (HIL 'A')		100	20	12%/100 ^f	1000	600	300	7000	10/15 ^g
HIL 'D' ^b		400	80	48%/400	4000	2400	1200	28000	40/60
HIL 'E' ^c		200	40	24%/200	2000	600	600	14000	20/30
HIL 'F' ^d		500	100	60%/500	5000	3000	1500	35000	50/75

- Notes
- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP)
 - 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
- a: Residential with gardens and accessible soil including children's day-care centres, preschools, primary schools, townhouses and villas.
- b: Residential with minimal opportunities for soil access, including high-rise, apartments and flat
- c: Parks, recreational open space and playing fields, including secondary schools
- d: Commercial or industrial development
- e: 400mg/kg for Chromium (+3) and 1mg/kg for Chromium (+6). Chromium (Cr) may exist in a number of states. Cr (+6) is easily reduced to form the most stable Cr (+3) whenever exposed to the atmosphere. Therefore Cr (+3) is adopted for this assessment.
- f: 12% (120000mg/kg) for Chromium (+3) and 100mg/kg for Chromium (+6).
- g: 10mg/kg for Methyl Mercury and 15mg/kg for Inorganic Mercury.

TABLE B
TOTAL PETROLEUM HYDROCARBONS (TPH) AND BTEX TEST RESULTS

Analyte		TPH (mg/kg)					BTEX (mg/kg)			
		C6-C9	C10-C14	C15-C28	C29-C36	C10-C36 ^a	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
Sample Location	Depth (m)									
PH1	0.5	<10	<50	<100	<100	<250	<0.5	<0.5	<0.5	<1.5
PH2	0.5	<10	<50	<100	<100	<250	<0.5	<0.5	<0.5	<1.5
PH3	1	<10	<50	<100	<100	<250	<0.5	<0.5	<0.5	<1.5
PH4	0.5	<10	<50	<100	<100	<250	<0.5	<0.5	<0.5	<1.5
Practical Quantitation Limits (PQL)		10	50	100	100	NA	0.5	0.5	0.5	1.5
Waste Criteria - Total Concentration (w/o TCLP)										
CT1 - General Solid Waste		NA	-	-	-	NA	10	288	600	1000
CT2 - Restricted Solid Waste		NA	-	-	-	NA	40	1152	2400	4000
Waste Criteria - Total Concentration (with TCLP)										
SCC1 - General Solid Waste		650	-	-	-	10000	18	518	1080	1800
SCC2 - Restricted Solid Waste		2600	-	-	-	40000	72	2073	4320	7200
EPA Levels^b		65	C10-C36 =1000				1	1.4	3.1	14

Notes

- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP).
- 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
- a: $C_{10-C36} = (C_{10-C14}) + (C_{15-C28}) + (C_{29-C36})$; concentrations less than PQL are assumed equal to PQL.
- b: Contaminated Sites: "Guidelines for Assessing Service Station Sites", 1994, EPA
- NA: Not Applicable

TABLE C
BENZO(a)PYRENE AND POLYCYCLIC AROMATIC HYDROCARBONS (PAH) TEST RESULTS

Analyte		PAH (mg/kg)	
		BENZO(a)PYRENE (mg/kg)	TOTAL PAH (mg/kg)
Sample Location	Depth (m)		
PH1	0.5	<0.5	<1
PH2	0.5	<0.5	<1
PH3	1	<0.5	<1
PH4	0.5	<0.5	<1
Practical Quantitation Limits (PQL)		0.5	NA
Waste Criteria - Total Concentration (w/o TCLP)			
CT1 - General Solid Waste		0.8	NA
CT2 - Restricted Solid Waste		3.2	NA
Waste Criteria - Total Concentration (with TCLP)			
SCC1 - General Solid Waste		10	200
SCC2 - Restricted Solid Waste		23	800
NATIONAL ENVIRONMENT PROTECTION MEASURE (1999)			
Health Investigation Levels (HIL) ^a (HIL 'A')		1	20
HIL 'D' ^b		4	80
HIL 'E' ^c		2	40
HIL 'F' ^d		5	100

- Notes
- 1 CT1, CT2 : Total concentrations used for defining General Solid Waste and Restricted Solid Waste respectively (without TCLP).
 - 2 SCC1, SCC2 : Total Concentration used for defining General Solid Waste and Restricted Solid Waste respectively (in conjunction with TCLP)
- a: Residential with gardens and accessible soil including children's day-care centres, preschools, primary schools, townhouses and villas.
- b: Residential with minimal opportunities for soil access, including high-rise, apartments and flat
- c: Parks, recreational open space and playing fields, including secondary schools
- d: Commercial or industrial development
- NA: Not Applicable

The soil concentrations of the tested analytes, as shown in Tables A, B & C, are within the guidelines for all land uses as outlined by NEPM *Health Investigation Levels*, the NSW EPA (1994) "*Guidelines for Assessing Services Station Sites*" and the *Provisional Phytotoxicity-based Investigation Levels* (PPBIL) of the NSW DEC (2006) Guidelines for the NSW Site Auditor Scheme.

Analysis of the clay and shale materials against criteria for different developments within a site indicates acceptable levels for HIL 'A' (residential with accessible soils), HIL 'E' (Parks, recreational, open space), HIL 'D' (Residential high-rise apartments), or HIL 'F' (Commercial/industrial) developments.

With respect to the NSW DECC "*Waste Classification Guidelines, Part 1: Classifying Waste*" (2009), concentrations are below the CT1 criteria as indicated in the Tables above.

With reference to a site walkover, following the laboratory analysis and with reference to NSW EPA guidelines, the natural materials have concentrations that were below the threshold values for HIL 'A', 'D', 'E' & 'F' as outlined by NEPM *Health Investigation Levels*, the NSW Service Station Guidelines and the PPBIL. The natural underlying soil in question is classified as **VENM** (Virgin Excavated Natural Material) with reference to the above NSW OEH guidelines. As a result of this classification the material can be disposed of as per Schedule 1 Part 3 of the *Protection of the Environment Operations Act 1997*.

If any further areas of environmental concern are uncovered during the excavation process, this office should be notified for further assessment. We would be pleased to provide further information on any aspects of this report.

For and on behalf of

Aargus Pty Ltd



Angus Wythes

Environmental Scientist

Reviewed By



Mark Kelly

Environmental Manager

Appendix D

Field Work Results

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: G1A
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

[illegible]

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _i	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{sp}	Water seep
E	Environmental sample	W _l	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.3 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: G2A
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
15.3 1 1.4 2 2.2	0.15	FILLING (TOPSOIL) - dark brown, silty clay filling (topsoil) with some rootlets, damp		D/E	0.1		PID<1					
		FILLING - brown and grey, slightly silty, sandy clay filling with some crushed sandstone and shale fragments, damp		D/E	0.5		PID<1					
		- some brick and sandstone cobbles at approximately 0.4m and 1.0m		D/E	1.0		PID<1	1				
				D/E	1.5		PID<1					
				D/E	2.0		PID<1	2				
13	2.2	SILTY CLAY - stiff, light grey and red brown, silty clay with some ironstone gravel, damp										
11	2.5	Pit discontinued at 2.5m - target depth reached		D/E	2.5		PID<1					
12	3											
11	4											

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 13.2 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: G3A
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
13.2	0.15	FILLING (TOPSOIL) - brown and grey, sandy silty clay filling (topsoil) with some rootlets, damp		D/E	0.1		PID<1					
		FILLING - brown and grey, sandy silty clay filling with some shale fragments, damp to moist - some brick at approximately 0.3m		D/E*	0.5		PID<1					
0.8		SILTY CLAY - stiff, light grey and red-brown, silty clay with some ironstone gravel, damp		D/E	1.0		PID<1	1				
1.2		Pit discontinued at 1.2m - target depth reached										
2								2				
3								3				
4								4				

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD2-230612 duplicate sample collected

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U _s	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 12.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: G4A
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 **OF** 1

[illegible]

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- ☐ Sand Penetrometer AS1289.6.3.3
- ☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U ₁	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W ₁	Water seep
E	Environmental sample	W ₂	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 12.3 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: G5A
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
12.2	0.15	FILLING (TOPSOIL) - brown and grey, sandy silty clay filling (topsoil) with some rootlets, damp		D/E	0.1		PID<1					
		FILLING - brown and grey, sandy silty clay filling with some shale fragments, damp to moist		D/E	0.5		PID<1					
				D/E	1.0		PID<1					
	1.1	SILTY CLAY - firm to stiff, light grey and red-brown, silty clay with some ironstone gravel, damp										
	1.5	Pit discontinued at 1.5m - target depth reached		D/E	1.5		PID<1					

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.7 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: C1
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING - brown, sandy clay filling with some sandstone cobbles and shale fragments and a trace of rootlets and bricks										
				D/E	0.5		PID<1					
					0.6							
15												
1								1				
				D/E	1.3		PID<1					
					1.4							
14												
1.8		SILTY CLAY - stiff to very stiff, red brown mottled brown, silty clay with a trace of rootlets and fine ironstone gravel										
2				D/E*	2.0		PID<1	2				
					2.1							
2.2		Pit discontinued at 2.2m										
13												
3								3				
12												
4								4				
11												

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Duplicate sample DUP2 collected

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.8 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: C2
PROJECT No: 45153.02
DATE: 26/6/2012
SHEET 1 OF 1

[illegible]

RIG: DT100

DRILLER: S Salib

LOGGED: SB

CASING:

TYPE OF BORING: Solid flight auger to 2.6m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test (s(50) (MPa)
		PL(D)	Point load diametral test (s(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



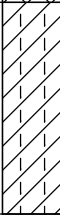
Douglas Partners
Geotechnics | Environment | Groundwater

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 14.2 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: C3
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
1.1		FILLING - brown, sandy silty clay filling with some orange-brown clay inclusions, sandstone cobbles, shale fragments, bricks/brick fragments, concrete rubble and a trace of rootlets		D/E	0.4		PID<1					
					0.5							
1.3				D/E	1.4		PID<1					
					1.5							
1.9		SILTY CLAY - red-brown mottled light brown, silty clay with a trace of fine ironstone gravel		D/E	2.2		PID<1					
2.0					2.3							
2.6		- becoming orange-brown mottled light brown at 2.4m										
		Pit discontinued at 2.6m - target depth reached										
3.0												
4.0												
10.0												

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 12.3 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: C4
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
12.2	0.15	FILLING (TOPSOIL) - brown and grey, sandy silty clay filling (topsoil) with some rootlets, damp		D/E	0.1		PID<1					
		FILLING - brown and grey, sandy silty clay filling with some shale fragments, damp to moist - some brick at approximately 0.3m		D/E*	0.5		PID<1					
				D/E	1.0		PID<1					
	1.2	SILTY CLAY - firm to stiff, light grey and red-brown, silty clay with some ironstone gravel, damp										
	1.5	Pit discontinued at 1.5m - target depth reached		D/E	1.5		PID<1					

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD1-230612 duplicate sample collected

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

BOREHOLE LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 16.4 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

BORE No: C5
PROJECT No: 45153.02
DATE: 26/6/2012
SHEET 1 OF 1

[illegible]

RIG: DT100

DRILLER: S Salib

LOGGED: SB

CASING:

TYPE OF BORING: Solid flight auger to 3.1m

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W	Water seep
E	Environmental sample	W	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 12.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: C6
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

[illegible]

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _x	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{seep}	Water seep
E	Environmental sample	W _{level}	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



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TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.5 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: T1
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

[illegible]

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Duplicate sample DUP 1 collected

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U _x	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W _{seep}	Water seep
E	Environmental sample	W _{level}	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)

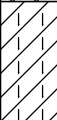


TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.7 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: T2
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.6	FILLING - brown and grey-brown, clay filling with some sandstone and shale fragments and bricks/brick fragments		D/E	0.4 0.5		PID<1					
	1.6	FILLING - brown, silty sandy filling with some clay and sandstone cobbles, shale and brick fragments		D/E	1.0 1.1		PID<1	1				
		- sandstone boulder from 1.3m										
	2.0	SILTY CLAY - very stiff, red-brown mottled light brown, silty clay		D/E	1.7 1.8		PID<1					
	2.2	SHALE - very low to low strength, grey-brown shale						2				
	2.2	Pit discontinued at 2.2m - in shale										
	3.0							3				
	4.0							4				

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	G	Gas sample
B	Bulk sample	P	Piston sample
BLK	Block sample	U ₁	Tube sample (x mm dia.)
C	Core drilling	W	Water sample
D	Disturbed sample	W ₁	Water seep
E	Environmental sample	W ₂	Water level
		PID	Photo ionisation detector (ppm)
		PL(A)	Point load axial test Is(50) (MPa)
		PL(D)	Point load diametral test Is(50) (MPa)
		pp	Pocket penetrometer (kPa)
		S	Standard penetration test
		V	Shear vane (kPa)



TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.8 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: T3
PROJECT No: 45153.02
DATE: 20/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING - brown and grey-brown, sandy silty clay filling with some bricks, shale fragments and sandstone fragments/cobbles and rootlets										
				D/E	0.4		PID<1					
					0.5							
15												
1												
				D/E	1.2		PID<1					
					1.3							
14												
1.8		SILTY CLAY - stiff, red-brown mottled brown, silty clay with a trace of fine ironstone gravel										
				D/E	1.9		PID<1					
2					2.0							
2.3		Pit discontinued at 2.3m										
13												
3												
12												
4												
11												

RIG: 4t Excavator

LOGGED: SB

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS:

SAMPLING & IN SITU TESTING LEGEND					
A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	▷	Water seep	S	Standard penetration test
E	Environmental sample	≡	Water level	V	Shear vane (kPa)

TEST PIT LOG

CLIENT: Lend Lease
PROJECT: Proposed Commercial Development
LOCATION: 3 Murray Rose Avenue, Sydney Olympic Park

SURFACE LEVEL: 15.3 AHD
EASTING:
NORTHING:
DIP/AZIMUTH: 90°/--

PIT No: T4
PROJECT No: 45153.02
DATE: 23/6/2012
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
15.3 1.5 1.0 1.4 1.2	0.15	FILLING (TOPSOIL) - dark brown, silty clay filling (topsoil) with some rootlets, damp		D/E	0.1		PID<1					
		FILLING - brown and grey, slightly silty, sandy clay filling with some gravel (crushed sandstone and shale fragments), damp		D/E	0.5		PID<1					
		- some cobble sized sandstone fragments from approximately 0.8m to 1.2m		D/E*	1.0		PID<1	1				
				D/E	1.5		PID<1					
				D/E	2.0		PID<1	2				
13.3	2.2	SILTY CLAY - stiff, light grey and red-brown, silty clay with some ironstone gravel, damp										
12.5	2.5	Pit discontinued at 2.5m - target depth reached		D/E	2.5		PID<1					
12.0 11.5 11.0 10.5 10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30											

RIG: 4t Excavator

LOGGED: MM

SURVEY DATUM: MGA94

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD3-230612 duplicate sample collected

- ☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND

A	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)
B	Bulk sample	P	Piston sample	PL(A)	Point load axial test Is(50) (MPa)
BLK	Block sample	U	Tube sample (x mm dia.)	PL(D)	Point load diametral test Is(50) (MPa)
C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	W	Water seep	S	Standard penetration test
E	Environmental sample	W	Water level	V	Shear vane (kPa)

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G1				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	8/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15 m bgl				
Screened Interval:	3 to 15 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	10/07/2012				
Purged By:	CF				
GW Level (pre-purge):	7.65 m bgl				
GW Level (post-purge):	Dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	10/07/2012				
Sampled By:	CF				
Weather Conditions:	Overcast				
GW Level (pre-purge):	7.4 m bgl				
GW Level (post sample):	12.2 m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	17.8	2.82	2326	7.09	-101
2	18.8	1.41	2343	6.68	-91.3
3	18.9	1.08	2628	6.60	-86.2
4	18.9	0.86	2280	6.54	-77.7
5	18.9	0.74	2243	6.49	-70.0
6	18.9	0.67	2223	6.46	-64.3
7	18.9	0.61	2206	6.44	-60.6
8	19.0	0.58	2187	6.42	-55.3
9	19.0	0.55	2177	6.41	-53.2
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	10 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Clear to slightly cloudy				
Sample ID:	G1				
QA/QC Samples:	N/A				
Sampling Containers and filtration:	Amber glass, preserved vials, plastic				
Comments / Observations:					

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G4				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	25/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15.1 m bgl				
Screened Interval:	3.1 to 15.1 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	10/07/2012				
Purged By:	CF				
GW Level (pre-purge):	5.3 m bgl				
GW Level (post-purge):	Dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	10/07/2012				
Sampled By:	CF				
Weather Conditions:	Overcast				
GW Level (pre-purge):	5.4 m bgl				
GW Level (post sample):	9.2 m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	50 L				
Total Volume Purged:	30 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	19.1	4.25	5217	7	-148
2	19.3	1.58	5138	6.74	-138
3	19.4	1.21	5003	6.69	-135
4	19.4	1.03	4911	6.67	-132
5	19.5	0.89	4338	6.66	-131
6	19.4	0.80	4274	6.66	-131
7	19.4	0.73	4230	6.66	-131
8	19.4	0.70	4701	6.66	-130
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	9 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Clear				
Sample ID:	G4				
QA/QC Samples:	N/A				
Sampling Containers and filtration:	Amber glass, preserved vials, plastic				
Comments / Observations:					

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G5				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	8/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15 m bgl				
Screened Interval:	3 to 15 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	10/07/2012				
Purged By:	CF				
GW Level (pre-purge):	2 m bgl				
GW Level (post-purge):	Dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	10/07/2012				
Sampled By:	CF				
Weather Conditions:	Overcast				
GW Level (pre-purge):	2 m bgl				
GW Level (post sample):	7 m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	60 L				
Total Volume Purged:	30 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	19.6	208.00	3302	6.42	-30.0
2	19.7	1.67	3282	6.35	-24.2
3	19.7	1.27	2929	6.22	-16.2
4	19.7	0.98	3341	6.45	-51.4
5	19.6	0.70	3381	6.64	-116.0
6	19.6	0.54	3446	6.96	-144.0
7	19.6	0.48	3952	7.00	-150.3
8	19.6	0.47	3436	6.93	-144.0
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	9 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Clear to slightly cloudy				
Sample ID:	G5				
QA/QC Samples:	BD1				
Sampling Containers and filtration:	Amber glass, preserved vials, plastic				
Comments / Observations:					

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G1				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	8/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15 m bgl				
Screened Interval:	3 to 15 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	27/07/2012				
Purged By:	SB				
GW Level (pre-purge):	7.65 m bgl				
GW Level (post-purge):	Dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	30/07/2012				
Sampled By:	SB				
Weather Conditions:	Overcast				
GW Level (pre-purge):	9.65 m bgl				
GW Level (post sample):	10.1 m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	2 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	19.1	1.49	2530	7.1	110
2	19.3	1.3	2600	6.9	110
3	19.4	1.1	2630	6.9	110
4	19.5	1.1	2600	6.9	110
5	19.5	1.1	2590	6.7	110.0
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	10.5 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Clear to slightly cloudy				
Sample ID:	G1				
QA/QC Samples:	N/A				
Sampling Containers and filtration:	Preserved vials				
Comments / Observations:					

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G4				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	25/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15.1 m bgl				
Screened Interval:	3.1 to 15.1 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	27/07/2012				
Purged By:	SB				
GW Level (pre-purge):	5.3 m bgl				
GW Level (post-purge):	Dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	40 L				
Total Volume Purged:	30 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	30/07/2012				
Sampled By:	SB				
Weather Conditions:	Overcast				
GW Level (pre-purge):	7.65 m bgl				
GW Level (post sample):	8.6 m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	L				
Total Volume Purged:	2 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	19.9	0.50	4360	6.5	75
2	20.0	0.40	4400	6.5	62
3	20.0	0.40	4370	6.6	43
4	20.0	0.40	4360	6.6	40
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	9 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Slightly cloudy				
Sample ID:	G4				
QA/QC Samples:	N/A				
Sampling Containers and filtration:	Preserved vials				
Comments / Observations:					

Groundwater Field Sheet

Project and Bore Installation Details					
Bore / Standpipe ID:	G5				
Project Name:	3 Murray Rose Ave				
Project Number:	45153.02				
Site Location:	Sydney Olympic Park				
Bore Easting:		Northing:			
Installation Date:	8/06/2012				
GW Level (during drilling):	- m bgl				
Well Depth:	15 m bgl				
Screened Interval:	3 to 15 m bgl				
Contaminants/Comments:					
Bore Development Details					
Date/Time:	27/07/2012				
Purged By:	SB				
GW Level (pre-purge):	2 m bgl				
GW Level (post-purge):	dry m bgl				
PSH observed:	No				
Observed Well Depth:	15 m bgl				
Estimated Bore Volume:	L				
Total Volume Purged:	20 L				
Equipment:	Twister pump				
Micropurge and Sampling Details					
Date/Time:	30/07/2012				
Sampled By:	SB				
Weather Conditions:	Overcast				
GW Level (pre-purge):	6.2 m bgl				
GW Level (post sample):	7.8 m bgl				
PSH observed:	No				
Observed Well Depth:	m bgl				
Estimated Bore Volume:	L				
Total Volume Purged:	3 L				
Equipment:	Low flow				
Water Quality Parameters					
Time / Volume	Temp (°C)	DO (mg/L)	EC (µS or mS/cm)	pH	Redox (mV)
Stabilisation Criteria (3 readings)	0.1 °C	+/- 0.3 mg/L	+/- 3%	+/- 0.1	+/- 10 mV
1	19.4	18.40	3066	6.09	127.9
2	19.7	16.00	3256	6.22	125.0
3	19.7	14.90	3728	6.30	123.0
4	19.7	10.70	3680	6.40	121.0
Additional Readings Following stabilisation:	DO % Sat	SPC	TDS		
Sample Details					
Sampling Depth (rationale):	8.5 m bgl,				
Sample Appearance (e.g. colour, siltiness, odour):	Clear to slightly cloudy				
Sample ID:	G5				
QA/QC Samples:					
Sampling Containers and filtration:	Preserved vials				
Comments / Observations:					

Appendix E

Summary of Laboratory Test Results

Table E1: Specific Contaminant Concentrations for Soil Samples

Sample/ Depth (m)	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	OPP	PCB	Phenol	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Filling Samples																						
G1/0.2-0.3	<0.2	<0.5	<1	<3	<25	<50	<200	7.7	1.0	<2	<0.8	<0.7	<5	N	95	<0.5	17	21	30	0.1	5	44
G1/0.8-0.9	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	<4	<0.5	6	37	18	<0.1	14	65
G2/0.1	<0.2	<0.5	<1	<3	<25	<50	<200	6.9	1.0	<2	<0.8	<0.7	<5	N	9	<0.5	18	22	38	<0.1	6	25
G2/0.5	<0.2	<0.5	<1	<3	<25	<50	280	38.1	5.0	<2	<0.8	<0.7	<5	N	32	<0.5	18	26	29	<0.1	10	73
G3/0.5**	<0.2	<0.5	<1	<3	<25	<50	<200	29.6	2.8	<2	<0.8	<0.7	<5	N	34	<0.5	15	23	34	<0.1	7	70
G4/0.2	<0.2	<0.5	<1	<3	<25	<50	<200	2.3	0.3	<2	<0.8	<0.7	<5	N	14	<0.5	13	27	22	<0.1	16	51
G5/1.0	<0.2	<0.5	<1	<3	<25	<50	<200	5.3	0.7	<2	<0.8	<0.7	<5	N	11	<0.5	17	26	43	<0.1	9	150
C1/0.5-0.6	<0.2	<0.5	<1	<3	<25	<50	<200	21.7	3.0	<2	<0.8	<0.7	<5	N	14	<0.5	17	23	20	<0.1	5	29
C1/1.3-1.4	<0.2	<0.5	<1	<3	<25	<50	<200	3.9	0.6	<2	<0.8	<0.7	<5	N	64	<0.5	17	22	29	<0.1	6	100
C2/0.9-1.0	<0.2	<0.5	<1	<3	<25	<50	<200	1.6	0.1	<2	<0.8	<0.7	<5	N	6	<0.5	14	26	18	<0.1	14	55
C2/1.5-1.6	<0.2	<0.5	<1	<3	<25	<50	<200	1.4	0.1	<2	<0.8	<0.7	<5	N	5	<0.5	16	15	17	<0.1	9	37
C3/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	<200	22.2	3.0	<2	<0.8	<0.7	<5	N	16	<0.5	18	20	32	<0.1	6	58
C3/1.4-1.5	<0.2	<0.5	<1	<3	<25	<50	<200	25.9	3.3	<2	<0.8	<0.7	<5	N	35	<0.5	18	25	52	<0.1	6	86
C4/0.1	<0.2	<0.5	<1	<3	<25	<50	<200	5.9	0.8	<2	<0.8	<0.7	<5	N	43	<0.5	21	24	43	<0.1	9	78
C4/0.5*	<0.2	<0.5	<1	<3	<25	<50	<200	3.1	0.4	<2	<0.8	<0.7	<5	N	260	<0.5	20	21	38	<0.1	6	85
C5/0.4-0.5	<0.2	<0.5	<1	<3	<25	<50	<200	1.4	0.2	<2	<0.8	<0.7	<5	N	11	<0.5	10	18	20	<0.1	7	33
C5/1.9-2.0	<0.2	<0.5	<1	<3	<25	<50	<200	4.8	0.5	<2	<0.8	<0.7	<5	N	11	<0.5	12	18	18	<0.1	15	52
C6/0.1	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	9	<0.5	11	23	17	<0.1	2	18
T1/0.3-0.4	<0.2	<0.5	<1	<3	<25	<50	<200	11.1	1.6	<2	<0.8	<0.7	<5	N	58	<0.5	11	30	20	<0.1	6	38
T2/1.0-1.1	<0.2	<0.5	<1	<3	<25	<50	530	70.2	9.3	<2	<0.8	<7	<5	N	140	<0.5	14	20	33	<0.1	5	86
T3/1.2-1.3	<0.2	<0.5	<1	<3	<25	<50	<200	8.9	1.1	<2	<0.8	<0.7	<5	N	31	<0.5	16	23	29	<0.1	7	57
T4/0.5	<0.2	<0.5	<1	<3	<25	<50	<200	6.1	0.8	<2	<0.8	<0.7	<5	N	27	<0.5	17	23	24	<0.1	6	68
T4/1.0***	<0.2	<0.5	<1	<3	<25	<50	<200	17.2	2.1	<2	<0.8	<0.7	<5	N	87	<0.5	19	28	130	<0.1	10	280
Natural Soil Samples																						
G3/1.0	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	8	<0.5	17	28	21	<0.1	3	15
G4/0.9	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	19	<0.5	7	41	35	<0.1	13	63
G5/1.5	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	7	<0.5	26	25	26	<0.1	10	22
C6/0.5	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	0.4	<2	<0.8	<0.7	<5	N	17	<0.5	14	26	24	<0.1	13	51
T1/1.7-1.8	<0.2	<0.5	<1	<3	<25	<50	<200	<1.5	<0.05	<2	<0.8	<0.7	<5	N	10	<0.5	14	28	16	<0.1	4	18

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; C₆ – C₃₆ = Total recoverable hydrocarbons; PAH = Polycyclic aromatic hydrocarbons; B(a)P = Benzo(a)pyrene; OCP = Organochlorine pesticides; OPP = Organophosphorus pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium;; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc; *, **, *** denotes duplicate pairs

Table E2: Specific Contaminant Concentrations for QA/QC Soil Samples

Sample/ Depth (m)	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	OPP	PCB	Phenol	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
QA/QC Samples																						
BD1*	<0.2	<0.5	<1	<3	<25	<50	<200	2.3	0.3	NT	NT	NT	NT	NT	170	<0.5	15	18	38	<0.1	5	71
BD2**	<0.2	<0.5	<1	<3	<25	<50	<200	6.1	0.8	NT	NT	NT	NT	NT	24	<0.5	17	24	32	<0.1	6	59
BD3***	<0.2	<0.5	<1	<3	<25	<50	290	27.3	3.5	NT	NT	NT	NT	NT	64	<0.5	19	34	120	<0.1	7	270
TB	<0.2	<0.5	<1	<3	<25	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TS	100%	102%	99%	98%	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; C₆ – C₃₆ = Total recoverable hydrocarbons; PAH = Polycyclic aromatic hydrocarbons; B(a)P = Benzo(a)pyrene; OCP = Organochlorine pesticides; OPP = Organophosphorus pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium;; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc; *, **, *** denotes duplicate pairs; NT = not tested

Table E3: Guidelines for Soil Contamination Levels

Guideline	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	OPP	PCB	Phenol	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HIL NEHF F ¹								80	4	Various	Various	40	34000		400	80	48000	4000	1200	60	2400	28000
Sensitive Use ²	1	1.4	3.1	14	65	1000																
PPIL ³															20	3	400	100	600	1	60	200

Notes: ¹ Health-based investigation levels for commercial sites from *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2006)*
² Sensitive land use criteria from *Contaminated Sites: Guidelines for Assessing Service Station Sites (1994)*
³ Provisional phytotoxicity-based investigation levels from *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2006)*

Table E4: Waste Classification Guidelines Levels (DECCW NSW, 2009)

General Solid Waste	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	OPP	PCB	Phenol	Asbestos	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	(Y/N)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SCC Only	10	288	600	1000	650	10000		200	0.8	Various	Various	50	288		100	20	100		100	4	40	
SCC ¹	18	518	1080	1800	650	10000		200	10	Various	Various	50	518		500	100	1900		1500	50	1050	
TCLP ¹	0.5	14.4	30	50					0.04	Various	Various		14.4		5	1	5		5	0.2	2	

Notes: ¹ Concentrations when both SCC and TCLP are considered

Table E5: Contaminant Concentrations in Excavated Natural Material (ENM) Exemption (NSW EPA, 2008)

Concentrations	EC	pH	TRH	VHC	Foreign Mat.	PAH	B(a)P	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn
	µS/cm	pH units	mg/kg	mg/kg	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Max. Average	1500	6 to 9	250	0.5	0.05	20	0.5	20	0.5	50	50	50	0.5	30	100
Absolute Max.	3000	5.5 to 10	500	1	0.1	40	1	40	1	100	100	100	1	60	200

Notes: EC = Electrical conductivity; TRH = Total recoverable hydrocarbons; VHC = Volatile halogenated compounds; PAH = Polycyclic aromatic hydrocarbons; B(a)P = Benzo(a)pyrene; As = Arsenic; Cd = Cadmium; Cr = Chromium;; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc

Table E6: Additional Test Results for Waste Classification and Preliminary ENM Assessment

Sample/Depth (m)	VHC	Electrical Conductivity	pH	Foreign Materials	Toxicity Characteristic Leaching Procedure Results (mg/L)			
	mg/kg	µS/cm	pH units	%	Total PAH	Benzo(a)pyrene	Arsenic	Lead
G1/0.2-0.3	NT	NT	NT	NT	<0.016	<0.001	NT	NT
G1/0.8-0.9	<1	180	7.8	<0.05	NT	NT	NT	NT
G2/0.1	NT	NT	NT	NT	<0.016	<0.001	NT	NT
G2/0.5	<1	57	7.0	<0.05	<0.016	<0.001	NT	NT
G3/0.5	<1	140	6.0	<0.05	<0.016	<0.001	NT	NT
G4/0.2	<1	350	7.9	<0.05	NT	NT	NT	NT
G5/1.0	<1	130	6.5	<0.05	NT	NT	NT	NT
C1/0.5-0.6	NT	NT	NT	NT	<0.016	<0.001	NT	NT
C1/1.3-1.4	<1	190	7.2	<0.05	NT	NT	NT	NT
C2/1.5-1.6	<1	230	8.7	<0.05	NT	NT	NT	NT
C3/0.4-0.5	NT	NT	NT	NT	<0.016	<0.001	NT	NT
C3/1.4-1.5	<1	190	6.6	<0.05	<0.016	<0.001	NT	NT
C4/0.5	NT	NT	NT	NT	NT	NT	0.06	NT
C5/1.9-2.0	<1	290	9.7	<0.05	NT	NT	NT	NT
C6/0.5	<1	320	8.1	<0.05	NT	NT	NT	NT
T1/1.7-1.8	NT	NT	NT	NT	<0.016	<0.001	NT	NT
T2/1.0-1.1	NT	NT	NT	NT	<0.016	<0.001	NT	NT
T3/1.2-1.3	NT	NT	NT	NT	<0.016	<0.001	NT	NT
T4/0.5	NT	NT	NT	NT	<0.016	<0.001	NT	NT
T4/1.0	NT	NT	NT	NT	NT	NT	NT	<0.3

Notes: VHC = Volatile halogenated compounds; PAH = Polycyclic aromatic hydrocarbons; NT = not tested

Table E7: Specific Contaminant Concentrations for Water Samples

Sample	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	PCB	Phenol	Hardness	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	VOC
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mgCaCO ₃ /L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Groundwater Samples																						
G1/10 Jul 2012	<1	<1	<1	<3	<10	<50	<200	<16	<1	<0.2	<0.1	<50	270	1	<0.1	<1	5	1	<0.05	38	57	<10
G4/10 Jul 2012	<1	2	4	64	180	120	<200	<16	<1	<0.2	<0.1	<50	390	2	<0.1	1	4	1	<0.05	29	41	132
G5/10 Jul 2012*	<1	1	1	15	73	90	<200	<16	<1	<0.2	<0.1	<50	160	1	0.3	<1	3	<1	<0.05	39	140	33
G1/30 Jul 2012					<10																	<10
G4/30 Jul 2012					110																	21
G5/30 Jul 2012					<10																	<10
QA/QC Samples																						
BD1/10 Jul 2012*	<1	1	1	18	110	<50	<200	<16	<1					1	0.3	<1	6	1	<0.05	43	180	
R1/10 Jul 2012	<1	<1	<1	<3	<10									<1	<0.1	<1	<1	<1	<0.05	<1	<1	

Notes: B = Benzene; T = Toluene; E = Ethylbenzene; X = Xylene; C₆ – C₃₆ = Total recoverable hydrocarbons; PAH = Polycyclic aromatic hydrocarbons; B(a)P = Benzo(a)pyrene; OCP = Organochlorine pesticides; PCB = Polychlorinated biphenyls; As = Arsenic; Cd = Cadmium; Cr = Chromium; Cu = Copper; Pb = Lead; Hg = Mercury; Ni = Nickel; Zn = Zinc; VOC = Volatile organic compounds; * Denotes duplicate pair; NA = Not analysed

Table E8: Guidelines for Groundwater Contamination Levels

Guideline	B	T	E	X	C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₃₆	PAH	B(a)P	OCP	PCB	Phenol	Hardness	As	Cd	Cr	Cu	Pb	Hg	Ni	Zn	VOC
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mgCaCO ₃ /L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
95% Protection ¹	950			200				Various		Various	Various	320		13	0.2	1	1.4	3.4	0.6	11	8	
Hardness Adj. ²															1.1	4.9	7.3	40		57.2	41.6	
Threshold ³	10	800	300	600					0.01			2						10				

Notes: ¹ Trigger values for protection of 95% of freshwater species (or marine species where marine data is not available) (ANZECC, 2000)
² Hardness adjusted values in accordance with ANZECC Guidelines assuming very hard water (on average)
³ Threshold concentration criteria for protection of fresh aquatic ecosystems from *Contaminated Sites: Guidelines for Assessing Service Station Sites (1994)*

Appendix F

Detailed Laboratory Test Results



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CERTIFICATE OF ANALYSIS

75314

Client:

Douglas Partners
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Peter Oitmaa

Sample log in details:

Your Reference:	<u>45153.02, Sydney Olympic Park</u>
No. of samples:	33 Soil
Date samples received / completed instructions received	26/06/2012 / 26/06/2012

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 3/07/12 / 2/08/12
Date of Preliminary Report: not issued
NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:


Rhian Morgan
Reporting Supervisor


Nick Sarlamis
Inorganics Supervisor


Paul Ching
Approved Signatory


Jeremy Faircloth
Chemist



VHC's in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-2 G1 0.8-0.9 20/06/2012 Soil	75314-4 G2 0.5 23/06/2012 Soil	75314-5 G3 0.5 23/06/2012 Soil	75314-7 G4 0.2 23/06/2012 Soil	75314-9 G5 1.0 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1

VHC's in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-2 G1 0.8-0.9 20/06/2012 Soil	75314-4 G2 0.5 23/06/2012 Soil	75314-5 G3 0.5 23/06/2012 Soil	75314-7 G4 0.2 23/06/2012 Soil	75314-9 G5 1.0 23/06/2012 Soil
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluorometha	%	99	97	98	98	98
Surrogate aaa-Trifluorotoluene	%	99	99	94	95	87
Surrogate Toluene-d8	%	98	98	97	98	97
Surrogate 4-Bromofluorobenzene	%	92	92	93	92	93

VHC's in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-12 C1 1.3-1.4 20/06/2012 Soil	75314-14 C2 1.5-1.6 26/06/2012 Soil	75314-16 C3 1.4-1.5 20/06/2012 Soil	75314-20 C5A 1.9-2.0 26/06/2012 Soil	75314-22 C6 0.5 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Dichlorodifluoromethane	mg/kg	<1	<1	<1	<1	<1
Chloromethane	mg/kg	<1	<1	<1	<1	<1
Vinyl Chloride	mg/kg	<1	<1	<1	<1	<1
Bromomethane	mg/kg	<1	<1	<1	<1	<1
Chloroethane	mg/kg	<1	<1	<1	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1	<1	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1	<1	<1	<1
trans-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
1,1-dichloroethane	mg/kg	<1	<1	<1	<1	<1
cis-1,2-dichloroethene	mg/kg	<1	<1	<1	<1	<1
bromochloromethane	mg/kg	<1	<1	<1	<1	<1
chloroform	mg/kg	<1	<1	<1	<1	<1
2,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1,1-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,1-dichloropropene	mg/kg	<1	<1	<1	<1	<1
carbon tetrachloride	mg/kg	<1	<1	<1	<1	<1
dibromomethane	mg/kg	<1	<1	<1	<1	<1
1,2-dichloropropane	mg/kg	<1	<1	<1	<1	<1
trichloroethene	mg/kg	<1	<1	<1	<1	<1
bromodichloromethane	mg/kg	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1	<1	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1	<1	<1	<1
1,3-dichloropropane	mg/kg	<1	<1	<1	<1	<1
dibromochloromethane	mg/kg	<1	<1	<1	<1	<1

VHC's in soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-12 C1 1.3-1.4 20/06/2012 Soil	75314-14 C2 1.5-1.6 26/06/2012 Soil	75314-16 C3 1.4-1.5 20/06/2012 Soil	75314-20 C5A 1.9-2.0 26/06/2012 Soil	75314-22 C6 0.5 23/06/2012 Soil
1,2-dibromoethane	mg/kg	<1	<1	<1	<1	<1
tetrachloroethene	mg/kg	<1	<1	<1	<1	<1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
chlorobenzene	mg/kg	<1	<1	<1	<1	<1
bromoform	mg/kg	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichloropropane	mg/kg	<1	<1	<1	<1	<1
bromobenzene	mg/kg	<1	<1	<1	<1	<1
2-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
4-chlorotoluene	mg/kg	<1	<1	<1	<1	<1
1,3-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
1,4-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
1,2-dichlorobenzene	mg/kg	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	mg/kg	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
hexachlorobutadiene	mg/kg	<1	<1	<1	<1	<1
1,2,3-trichlorobenzene	mg/kg	<1	<1	<1	<1	<1
Surrogate Dibromofluorometha	%	98	98	98	97	97
Surrogate aaa-Trifluorotoluene	%	95	99	99	98	102
Surrogate Toluene-d8	%	98	98	98	98	98
Surrogate 4-Bromofluorobenzene	%	93	92	93	92	92

VTRH & BTEX in Soil	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Our Reference:	-----	G1	G1	G2	G2	G3
Your Reference	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Depth		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	97	99	103	99	94

VTRH & BTEX in Soil	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Our Reference:	-----	G3	G4	G4	G5	G5
Your Reference	-----	1.0	0.2	0.9	1.0	1.5
Depth		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	95	102	87	97

VTRH & BTEX in Soil	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Our Reference:	-----	C1	C1	C2	C2	C3
Your Reference	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Depth		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	91	95	103	99	99

VTRH & BTEX in Soil	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Our Reference:	-----	C3	C4	C4	C5A	C5A
Your Reference	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Depth		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	99	96	99	97	98

VTRH & BTEX in Soil	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Our Reference:	-----	C6	C6	T1	T1	T2
Your Reference	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Depth		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	98	102	92	94	102

VTRH & BTEX in Soil	UNITS	75314-26	75314-27	75314-28	75314-29	75314-30
Our Reference:	-----	T3	T4	T4	BD1	BD2
Your Reference	-----	1.2-1.3	0.5	1.0	-	-
Depth		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	95	93	94	94

vTRH & BTEX in Soil				
Our Reference:	UNITS	75314-31	75314-32	75314-33
Your Reference	-----	BD3	TB	TS
Depth	-----	-	-	-
Date Sampled		23/06/2012	19/06/2012	19/06/2012
Type of sample		Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012
vTRHC ₆ - C ₉	mg/kg	<25	<25	[NA]
Benzene	mg/kg	<0.2	<0.2	100%
Toluene	mg/kg	<0.5	<0.5	102%
Ethylbenzene	mg/kg	<1	<1	99%
m+p-xylene	mg/kg	<2	<2	98%
o-Xylene	mg/kg	<1	<1	98%
Surrogate aaa-Trifluorotoluene	%	94	102	101

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	150	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	130	<100
Surrogate o-Terphenyl	%	90	90	90	94	92

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	89	91	88	92	88

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	93	90	101	96	89

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	89	89	89	93	97

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	300
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	230
Surrogate o-Terphenyl	%	90	95	94	93	101

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	75314-26	75314-27	75314-28	75314-29	75314-30
Your Reference	-----	T3	T4	T4	BD1	BD2
Depth	-----	1.2-1.3	0.5	1.0	-	-
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50	<50	<50	<50	<50
TRHC ₁₅ - C ₂₈	mg/kg	<100	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	93	92	95	94	91

sTRH in Soil (C10-C36)		
Our Reference:	UNITS	75314-31
Your Reference	-----	BD3
Depth	-----	-
Date Sampled		23/06/2012
Type of sample		Soil
Date extracted	-	27/06/2012
Date analysed	-	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	<50
TRHC ₁₅ - C ₂₈	mg/kg	140
TRHC ₂₉ - C ₃₆	mg/kg	150
Surrogate o-Terphenyl	%	97

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-1 G1 0.2-0.3 20/06/2012 Soil	75314-2 G1 0.8-0.9 20/06/2012 Soil	75314-3 G2 0.1 23/06/2012 Soil	75314-4 G2 0.5 23/06/2012 Soil	75314-5 G3 0.5 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1	0.1	0.5	0.3
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.2	<0.1	0.1	0.8	2.3
Anthracene	mg/kg	0.1	<0.1	0.1	0.5	0.6
Fluoranthene	mg/kg	0.9	<0.1	0.7	4.3	5.1
Pyrene	mg/kg	1.1	<0.1	0.9	5.1	5.5
Benzo(a)anthracene	mg/kg	0.6	<0.1	0.5	2.7	2.3
Chrysene	mg/kg	0.7	<0.1	0.6	3.2	2.6
Benzo(b+k)fluoranthene	mg/kg	1.4	<0.2	1.4	7.2	3.9
Benzo(a)pyrene	mg/kg	1.0	<0.05	0.97	5.0	2.8
Indeno(1,2,3-c,d)pyrene	mg/kg	0.7	<0.1	0.7	3.9	1.8
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	0.5	0.3
Benzo(g,h,i)perylene	mg/kg	0.9	<0.1	0.8	4.4	2.1
Surrogate p-Terphenyl-d ₁₄	%	104	98	99	93	96

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-6 G3 1.0 23/06/2012 Soil	75314-7 G4 0.2 23/06/2012 Soil	75314-8 G4 0.9 23/06/2012 Soil	75314-9 G5 1.0 23/06/2012 Soil	75314-10 G5 1.5 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	<0.1	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.3	<0.1	0.6	<0.1
Pyrene	mg/kg	<0.1	0.4	<0.1	0.8	<0.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	0.4	<0.1
Chrysene	mg/kg	<0.1	0.2	<0.1	0.5	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.4	<0.2	1.0	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.27	<0.05	0.66	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2	<0.1	0.5	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2	<0.1	0.6	<0.1
Surrogate p-Terphenyl-d ₁₄	%	99	99	99	97	101

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-11 C1 0.5-0.6 20/06/2012 Soil	75314-12 C1 1.3-1.4 20/06/2012 Soil	75314-13 C2 0.9-1.0 26/06/2012 Soil	75314-14 C2 1.5-1.6 26/06/2012 Soil	75314-15 C3 0.4-0.5 20/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.3	<0.1	<0.1	<0.1	0.4
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.5	<0.1	0.4	0.2	0.5
Anthracene	mg/kg	0.3	<0.1	<0.1	<0.1	0.3
Fluoranthene	mg/kg	2.2	0.4	0.2	0.2	2.4
Pyrene	mg/kg	2.8	0.5	0.2	0.2	2.9
Benzo(a)anthracene	mg/kg	1.5	0.3	<0.1	0.1	1.6
Chrysene	mg/kg	1.8	0.3	0.2	0.2	1.9
Benzo(b+k)fluoranthene	mg/kg	4.2	0.9	0.2	0.2	4.2
Benzo(a)pyrene	mg/kg	3.0	0.60	0.1	0.14	3.0
Indeno(1,2,3-c,d)pyrene	mg/kg	2.3	0.4	<0.1	0.1	2.2
Dibenzo(a,h)anthracene	mg/kg	0.3	<0.1	<0.1	<0.1	0.3
Benzo(g,h,i)perylene	mg/kg	2.5	0.5	0.1	0.1	2.5
Surrogate p-Terphenyl-d14	%	97	104	102	99	96

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-16 C3 1.4-1.5 20/06/2012 Soil	75314-17 C4 0.1 23/06/2012 Soil	75314-18 C4 0.5 23/06/2012 Soil	75314-19 C5A 0.4-0.5 26/06/2012 Soil	75314-20 C5A 1.9-2.0 26/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.6	0.2	0.1	<0.1	0.3
Anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	3.0	0.7	0.4	0.2	0.8
Pyrene	mg/kg	3.5	0.9	0.5	0.2	0.9
Benzo(a)anthracene	mg/kg	1.9	0.5	0.2	0.1	0.4
Chrysene	mg/kg	2.2	0.6	0.3	0.1	0.5
Benzo(b+k)fluoranthene	mg/kg	4.9	1.1	0.6	0.3	0.7
Benzo(a)pyrene	mg/kg	3.3	0.76	0.42	0.21	0.51
Indeno(1,2,3-c,d)pyrene	mg/kg	2.5	0.5	0.3	0.1	0.3
Dibenzo(a,h)anthracene	mg/kg	0.4	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	2.8	0.6	0.3	0.2	0.4
Surrogate p-Terphenyl-d14	%	97	97	98	99	99

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-21 C6 0.1 23/06/2012 Soil	75314-22 C6 0.5 23/06/2012 Soil	75314-23 T1 0.3-0.4 20/06/2012 Soil	75314-24 T1 1.7-1.8 20/06/2012 Soil	75314-25 T2 1.0-1.1 20/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.2	<0.1	1.4
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Phenanthrene	mg/kg	<0.1	<0.1	0.5	<0.1	2.1
Anthracene	mg/kg	<0.1	<0.1	0.2	<0.1	1.3
Fluoranthene	mg/kg	<0.1	0.4	1.3	<0.1	8.9
Pyrene	mg/kg	<0.1	0.5	1.4	<0.1	12
Benzo(a)anthracene	mg/kg	<0.1	0.2	0.8	<0.1	6.3
Chrysene	mg/kg	<0.1	0.3	0.9	<0.1	6.5
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.5	2.1	<0.2	12
Benzo(a)pyrene	mg/kg	<0.05	0.37	1.6	<0.05	9.3
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.2	0.9	<0.1	4.6
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	0.2	<0.1	1.0
Benzo(g,h,i)perylene	mg/kg	<0.1	0.3	1.0	<0.1	4.7
Surrogate p-Terphenyl-d14	%	101	97	96	102	97

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-26 T3 1.2-1.3 20/06/2012 Soil	75314-27 T4 0.5 23/06/2012 Soil	75314-28 T4 1.0 23/06/2012 Soil	75314-29 BD1 - 23/06/2012 Soil	75314-30 BD2 - 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	0.2	0.1	0.3	<0.1	0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	0.2	0.6	0.1	0.2
Anthracene	mg/kg	0.1	0.1	0.3	<0.1	<0.1
Fluoranthene	mg/kg	1.2	0.8	2.3	0.3	0.8
Pyrene	mg/kg	1.3	0.9	2.5	0.4	0.9
Benzo(a)anthracene	mg/kg	0.8	0.5	1.4	0.2	0.5
Chrysene	mg/kg	0.8	0.5	1.5	0.2	0.6
Benzo(b+k)fluoranthene	mg/kg	1.6	1.2	3.2	0.4	1.2
Benzo(a)pyrene	mg/kg	1.1	0.83	2.1	0.27	0.81
Indeno(1,2,3-c,d)pyrene	mg/kg	0.7	0.5	1.4	0.2	0.5
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	0.2	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.7	0.5	1.4	0.2	0.5
Surrogate p-Terphenyl-d14	%	99	95	99	96	94

PAHs in Soil		
Our Reference:	UNITS	75314-31
Your Reference	-----	BD3
Depth	-----	-
Date Sampled		23/06/2012
Type of sample		Soil
Date extracted	-	27/06/2012
Date analysed	-	28/06/2012
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.3
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	1.2
Anthracene	mg/kg	0.4
Fluoranthene	mg/kg	3.6
Pyrene	mg/kg	4.0
Benzo(a)anthracene	mg/kg	2.2
Chrysene	mg/kg	2.4
Benzo(b+k)fluoranthene	mg/kg	5.0
Benzo(a)pyrene	mg/kg	3.5
Indeno(1,2,3-c,d)pyrene	mg/kg	2.1
Dibenzo(a,h)anthracene	mg/kg	0.4
Benzo(g,h,i)perylene	mg/kg	2.2
Surrogate <i>p</i> -Terphenyl-d ₁₄	%	97

Organochlorine Pesticides in soil						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
HCBC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	97	100	97

Organochlorine Pesticides in soil						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	104	102	103

Organochlorine Pesticides in soil						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
HCBC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	97	103	95

Organochlorine Pesticides in soil						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	100	102	105	106

Organochlorine Pesticides in soil						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
HCBC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	0.8	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	89	91	94	90	98

Organochlorine Pesticides in soil				
Our Reference:	UNITS	75314-26	75314-27	75314-28
Your Reference	-----	T3	T4	T4
Depth	-----	1.2-1.3	0.5	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012
HCB	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	91	92

Organophosphorus Pesticides						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	97	100	97

Organophosphorus Pesticides						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	104	102	103

Organophosphorus Pesticides						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	97	103	95

Organophosphorus Pesticides						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	100	102	105	106

Organophosphorus Pesticides						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	89	91	94	90	98

Organophosphorus Pesticides				
Our Reference:	UNITS	75314-26	75314-27	75314-28
Your Reference	-----	T3	T4	T4
Depth	-----	1.2-1.3	0.5	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	91	92

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-1 G1 0.2-0.3 20/06/2012 Soil	75314-2 G1 0.8-0.9 20/06/2012 Soil	75314-3 G2 0.1 23/06/2012 Soil	75314-4 G2 0.5 23/06/2012 Soil	75314-5 G3 0.5 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	97	100	97

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-6 G3 1.0 23/06/2012 Soil	75314-7 G4 0.2 23/06/2012 Soil	75314-8 G4 0.9 23/06/2012 Soil	75314-9 G5 1.0 23/06/2012 Soil	75314-10 G5 1.5 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	99	104	102	103

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-11 C1 0.5-0.6 20/06/2012 Soil	75314-12 C1 1.3-1.4 20/06/2012 Soil	75314-13 C2 0.9-1.0 26/06/2012 Soil	75314-14 C2 1.5-1.6 26/06/2012 Soil	75314-15 C3 0.4-0.5 20/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	97	103	95

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-16 C3 1.4-1.5 20/06/2012 Soil	75314-17 C4 0.1 23/06/2012 Soil	75314-18 C4 0.5 23/06/2012 Soil	75314-19 C5A 0.4-0.5 26/06/2012 Soil	75314-20 C5A 1.9-2.0 26/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	98	100	102	105	106

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-21 C6 0.1 23/06/2012 Soil	75314-22 C6 0.5 23/06/2012 Soil	75314-23 T1 0.3-0.4 20/06/2012 Soil	75314-24 T1 1.7-1.8 20/06/2012 Soil	75314-25 T2 1.0-1.1 20/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<1
Surrogate TCLMX	%	89	91	94	90	98

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	75314-26 T3 1.2-1.3 20/06/2012 Soil	75314-27 T4 0.5 23/06/2012 Soil	75314-28 T4 1.0 23/06/2012 Soil
Date extracted	-	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	28/06/2012	28/06/2012	28/06/2012
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	91	92

Total Phenolics in Soil						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5

Total Phenolics in Soil				
Our Reference:	UNITS	75314-26	75314-27	75314-28
Your Reference:	-----	T3	T4	T4
Depth	-----	1.2-1.3	0.5	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil
Date extracted	-	29/06/2012	29/06/2012	29/06/2012
Date analysed	-	29/06/2012	29/06/2012	29/06/2012
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	95	<4	9	32	34
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	17	6	18	18	15
Copper	mg/kg	21	37	22	26	23
Lead	mg/kg	30	18	38	29	34
Mercury	mg/kg	0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	14	6	10	7
Zinc	mg/kg	44	65	25	73	70

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	8	14	19	11	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	17	13	7	17	26
Copper	mg/kg	28	27	41	26	25
Lead	mg/kg	21	22	35	43	26
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	3	16	13	9	10
Zinc	mg/kg	15	51	63	150	22

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	14	64	6	5	16
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	17	17	14	16	18
Copper	mg/kg	23	22	26	15	20
Lead	mg/kg	20	29	18	17	32
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	6	14	9	6
Zinc	mg/kg	29	100	55	37	58

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	35	43	260	11	11
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	18	21	20	10	12
Copper	mg/kg	25	24	21	18	18
Lead	mg/kg	52	43	38	20	18
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	6	9	6	7	15
Zinc	mg/kg	86	78	85	33	52

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	9	17	58	10	140
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	11	14	11	14	14
Copper	mg/kg	23	26	30	28	20
Lead	mg/kg	17	24	20	16	33
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	2	13	6	4	5
Zinc	mg/kg	18	51	38	18	86

Acid Extractable metals in soil						
Our Reference:	UNITS	75314-26	75314-27	75314-28	75314-29	75314-30
Your Reference	-----	T3	T4	T4	BD1	BD2
Depth	-----	1.2-1.3	0.5	1.0	-	-
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	31	27	87	170	24
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	16	17	19	15	17
Copper	mg/kg	23	23	28	18	24
Lead	mg/kg	29	24	130	38	32
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	7	6	10	5	6
Zinc	mg/kg	57	68	280	71	59

Acid Extractable metals in soil				
Our Reference:	UNITS	75314-31	75314-34	75314-35
Your Reference:	-----	BD3	G1 - Triplicate	T1 - Triplicate
Depth	-----	-	0.8-0.9	1.7-1.8
Date Sampled		23/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil
Date digested	-	27/06/2012	27/06/2012	27/06/2012
Date analysed	-	27/06/2012	27/06/2012	27/06/2012
Arsenic	mg/kg	64	<4	27
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	19	5	21
Copper	mg/kg	34	37	27
Lead	mg/kg	120	15	39
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	7	8	7
Zinc	mg/kg	270	43	68

Miscellaneous Inorg - soil						
Our Reference:	UNITS	75314-2	75314-4	75314-5	75314-7	75314-9
Your Reference	-----	G1	G2	G3	G4	G5
Depth	-----	0.8-0.9	0.5	0.5	0.2	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	02/07/2012	02/07/2012	02/07/2012	02/07/2012	02/07/2012
Date analysed	-	02/07/2012	02/07/2012	02/07/2012	02/07/2012	02/07/2012
pH 1:5 soil:water	pH Units	7.8	7.0	6.0	7.9	6.5
Electrical Conductivity 1:5 soil:water	µS/cm	180	57	140	350	130

Miscellaneous Inorg - soil						
Our Reference:	UNITS	75314-12	75314-14	75314-16	75314-20	75314-22
Your Reference	-----	C1	C2	C3	C5A	C6
Depth	-----	1.3-1.4	1.5-1.6	1.4-1.5	1.9-2.0	0.5
Date Sampled		20/06/2012	26/06/2012	20/06/2012	26/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	02/07/2012	02/07/2012	02/07/2012	02/07/2012	02/07/2012
Date analysed	-	02/07/2012	02/07/2012	02/07/2012	02/07/2012	02/07/2012
pH 1:5 soil:water	pH Units	7.2	8.7	6.6	9.7	8.1
Electrical Conductivity 1:5 soil:water	µS/cm	190	230	190	290	320

RTA276ENM* Foreign Material						
Our Reference:	UNITS	75314-2	75314-4	75314-5	75314-7	75314-9
Your Reference	-----	G1	G2	G3	G4	G5
Depth	-----	0.8-0.9	0.5	0.5	0.2	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Foreign Material	%	<0.05	<0.05	<0.05	<0.05	<0.05

RTA276ENM* Foreign Material						
Our Reference:	UNITS	75314-12	75314-14	75314-16	75314-20	75314-22
Your Reference	-----	C1	C2	C3	C5A	C6
Depth	-----	1.3-1.4	1.5-1.6	1.4-1.5	1.9-2.0	0.5
Date Sampled		20/06/2012	26/06/2012	20/06/2012	26/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Foreign Material	%	<0.05	<0.05	<0.05	<0.05	<0.05

Moisture						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	20	12	21	15	20

Moisture						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	25	13	8.1	22	26

Moisture						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	21	23	7.2	8.7	16

Moisture						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	18	20	19	14	14

Moisture						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	21	15	19	18	13

Moisture						
Our Reference:	UNITS	75314-26	75314-27	75314-28	75314-29	75314-30
Your Reference	-----	T3	T4	T4	BD1	BD2
Depth	-----	1.2-1.3	0.5	1.0	-	-
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	27/06/12	27/06/12	27/06/12	27/06/12	27/06/12
Date analysed	-	28/06/12	28/06/12	28/06/12	28/06/12	28/06/12
Moisture	%	23	16	18	18	19

Moisture		
Our Reference:	UNITS	75314-31
Your Reference	-----	BD3
Depth	-----	-
Date Sampled		23/06/2012
Type of sample		Soil
Date prepared	-	27/06/12
Date analysed	-	28/06/12
Moisture	%	20

Asbestos ID - soils						
Our Reference:	UNITS	75314-1	75314-2	75314-3	75314-4	75314-5
Your Reference	-----	G1	G1	G2	G2	G3
Depth	-----	0.2-0.3	0.8-0.9	0.1	0.5	0.5
Date Sampled		20/06/2012	20/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Brown coarse-grained clayey soil	Grey-brown clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained soil	Brown coarse-grained & clay soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils						
Our Reference:	UNITS	75314-6	75314-7	75314-8	75314-9	75314-10
Your Reference	-----	G3	G4	G4	G5	G5
Depth	-----	1.0	0.2	0.9	1.0	1.5
Date Sampled		23/06/2012	23/06/2012	23/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Red-brown clayey soil	Brown clayey soil	Brown coarse-grained soil	Brown coarse-grained soil	Brown coarse-grained clayey soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils						
Our Reference:	UNITS	75314-11	75314-12	75314-13	75314-14	75314-15
Your Reference	-----	C1	C1	C2	C2	C3
Depth	-----	0.5-0.6	1.3-1.4	0.9-1.0	1.5-1.6	0.4-0.5
Date Sampled		20/06/2012	20/06/2012	26/06/2012	26/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Brown coarse-grained clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained soil	Grey-brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils						
Our Reference:	UNITS	75314-16	75314-17	75314-18	75314-19	75314-20
Your Reference	-----	C3	C4	C4	C5A	C5A
Depth	-----	1.4-1.5	0.1	0.5	0.4-0.5	1.9-2.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012	26/06/2012	26/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Brown coarse-grained clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained soil	Brown coarse-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils						
Our Reference:	UNITS	75314-21	75314-22	75314-23	75314-24	75314-25
Your Reference	-----	C6	C6	T1	T1	T2
Depth	-----	0.1	0.5	0.3-0.4	1.7-1.8	1.0-1.1
Date Sampled		23/06/2012	23/06/2012	20/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Brown clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained clayey soil	Brown coarse-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils				
Our Reference:	UNITS	75314-26	75314-27	75314-28
Your Reference	-----	T3	T4	T4
Depth	-----	1.2-1.3	0.5	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil
Date analysed	-	28/06/2012	28/06/2012	28/06/2012
Sample mass tested	g	Approx 35g	Approx 35g	Approx 35g
Sample Description	-	Brown fine-grained clayey soil	Brown coarse-grained soil	Brown coarse-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Inorg-030	Total Phenolics - determined colorimetrically following distillation, based upon APHA 21st ED 5530 D.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA 21st ED, 4500-H+.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell and dedicated meter, in accordance with APHA 21st ED 2510 and Rayment & Higginson.
Inorg-080 ENM	This method is based on RTA T276 and as per NSW DECC Resource Recovery Exemption Guidelines and correspondence. It includes rubber, plastic, bitumen, paper, cloth, paint and wood (Note wood is construction timber only, naturally occurring wood/twigs/roots are excluded). RTA T276 requires at least 6kg of sample for this test.
Inorg-008	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VHC's in soil						Base Duplicate %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			29/06/2012	75314-2	29/06/2012 29/06/2012	LCS-2	29/06/2012
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Chloromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Vinyl Chloride	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Bromomethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Chloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Trichlorofluoromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,1-Dichloroethene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,1-dichloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	79%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
bromochloromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
chloroform	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	89%
2,2-dichloropropane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2-dichloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	91%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	97%
1,1-dichloropropene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
carbon tetrachloride	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
dibromomethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2-dichloropropane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
trichloroethene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	86%
bromodichloromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	89%
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,3-dichloropropane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
dibromochloromethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	82%
1,2-dibromoethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
tetrachloroethene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	96%
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
chlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
bromoform	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
bromobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
2-chlorotoluene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
4-chlorotoluene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VHC's in soil						Base II Duplicate II %RPD		
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
hexachlorobutadiene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	75314-2	<1 <1	LCS-2	<1
Surrogate Dibromofluorometha	%		Org-014	96	75314-2	99 98 RPD: 1	LCS-2	99%
Surrogate aaa-Trifluorotoluene	%		Org-014	104	75314-2	99 100 RPD: 1	LCS-2	104%
Surrogate Toluene-d8	%		Org-014	98	75314-2	98 98 RPD: 0	LCS-2	97%
Surrogate 4-Bromofluorobenzene	%		Org-014	92	75314-2	92 93 RPD: 1	LCS-2	93%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			29/06/2012	75314-2	29/06/2012 29/06/2012	LCS-2	29/06/2012
vTRHC6 - C9	mg/kg	25	Org-016	<25	75314-2	<25 <25	LCS-2	94%
Benzene	mg/kg	0.2	Org-016	<0.2	75314-2	<0.2 <0.2	LCS-2	93%
Toluene	mg/kg	0.5	Org-016	<0.5	75314-2	<0.5 <0.5	LCS-2	92%
Ethylbenzene	mg/kg	1	Org-016	<1	75314-2	<1 <1	LCS-2	95%
m+p-xylene	mg/kg	2	Org-016	<2	75314-2	<2 <2	LCS-2	96%
o-Xylene	mg/kg	1	Org-016	<1	75314-2	<1 <1	LCS-2	101%
Surrogate aaa-Trifluorotoluene	%		Org-016	104	75314-2	99 100 RPD: 1	LCS-2	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
TRHC10 - C14	mg/kg	50	Org-003	<50	75314-2	<50 <50	LCS-2	84%
TRHC15 - C28	mg/kg	100	Org-003	<100	75314-2	<100 <100	LCS-2	101%
TRHC29 - C36	mg/kg	100	Org-003	<100	75314-2	<100 <100	LCS-2	80%
Surrogate o-Terphenyl	%		Org-003	90	75314-2	90 92 RPD: 2	LCS-2	130%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-23	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-			28/06/2012	75314-23	28/06/2012 28/06/2012	LCS-3	28/06/2012
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	<0.1 <0.1	LCS-3	104%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.2 0.2 RPD: 0	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	<0.1 <0.1	[NR]	[NR]

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	<0.1 <0.1	LCS-3	102%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.5 0.5 RPD: 0	LCS-3	96%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.2 0.2 RPD: 0	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	1.3 1.3 RPD: 0	LCS-3	98%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	1.4 1.5 RPD: 7	LCS-3	98%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.8 0.8 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.9 0.9 RPD: 0	LCS-3	99%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	75314-23	2.1 2.2 RPD: 5	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	75314-23	1.6 1.5 RPD: 6	LCS-3	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.9 1 RPD: 11	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	0.2 0.2 RPD: 0	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	75314-23	1.0 1 RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	98	75314-23	96 96 RPD: 0	LCS-3	97%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			27/06/2012	75314-2	28/06/2012 28/06/2012	LCS-2	28/06/2012
HCB	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	96%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	105%
Heptachlor	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	94%
delta-BHC	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	95%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	103%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	106%
Dieldrin	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	110%
Endrin	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	100%
pp-DDD	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	117%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Endosulfan II	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	LCS-2	105%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-005	101	75314-2	99 99 RPD: 0	LCS-2	93%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			27/06/2012	75314-2	28/06/2012 28/06/2012	LCS-2	28/06/2012
Diazinon	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	LCS-2	98%
Fenitrothion	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	LCS-2	104%
Bromophos-ethyl	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	Org-008	<0.1	75314-2	<0.1 <0.1	LCS-2	100%
Surrogate TCLMX	%		Org-008	101	75314-2	99 99 RPD: 0	LCS-2	96%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-			27/06/2012	75314-2	28/06/2012 28/06/2012	LCS-2	28/06/2012
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	LCS-2	131%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	75314-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	101	75314-2	99 99 RPD: 0	LCS-2	102%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Total Phenolics in Soil						Base II Duplicate II %RPD		
Date extracted	-			29/06/2012	75314-1	29/06/2012 29/06/2012	LCS-1	29/06/2012
Date analysed	-			29/06/2012	75314-1	29/06/2012 29/06/2012	LCS-1	29/06/2012
Total Phenolics (as Phenol)	mg/kg	5	Inorg-030	<5	75314-1	<5 <5	LCS-1	98%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-1	27/06/2012
Date analysed	-			27/06/2012	75314-2	27/06/2012 27/06/2012	LCS-1	27/06/2012
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	75314-2	<4 <4	LCS-1	93%
Cadmium	mg/kg	0.5	Metals-020 ICP-AES	<0.5	75314-2	<0.5 <0.5	LCS-1	100%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	75314-2	6 4 RPD: 40	LCS-1	95%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	75314-2	37 28 RPD: 28	LCS-1	95%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	75314-2	18 12 RPD: 40	LCS-1	93%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	75314-2	<0.1 <0.1	LCS-1	107%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	75314-2	14 6 RPD: 80	LCS-1	95%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	75314-2	65 33 RPD: 65	LCS-1	94%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorg - soil						Base Duplicate %RPD		
Date prepared	-			02/07/2012	75314-2	02/07/2012 02/07/2012	LCS-1	02/07/2012
Date analysed	-			02/07/2012	75314-2	02/07/2012 02/07/2012	LCS-1	02/07/2012
pH 1:5 soil:water	pH Units		Inorg-001	[NT]	75314-2	7.8 8.0 RPD: 3	LCS-1	102%
Electrical Conductivity 1:5 soil:water	µS/cm	1	Inorg-002	<1	75314-2	180 220 RPD: 20	LCS-1	108%
QUALITY CONTROL RTA276 ENM* Foreign Material								
Foreign Material	%	0.05	Inorg-080 ENM	<0.05				
QUALITY CONTROL Moisture								
Date prepared	-			[NT]				
Date analysed	-			[NT]				
Moisture	%	0.1	Inorg-008	[NT]				
QUALITY CONTROL Asbestos ID - soils								
Date analysed	-			[NT]				
QUALITY CONTROL VHC's in soil	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	[NT]		[NT]		75314-4	27/06/2012	
Date analysed	-	[NT]		[NT]		75314-4	29/06/2012	
Dichlorodifluoromethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
Chloromethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
Vinyl Chloride	mg/kg	[NT]		[NT]		[NR]	[NR]	
Bromomethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
Chloroethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
Trichlorofluoromethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,1-Dichloroethene	mg/kg	[NT]		[NT]		[NR]	[NR]	
trans-1,2-dichloroethene	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,1-dichloroethane	mg/kg	[NT]		[NT]		75314-4	76%	
cis-1,2-dichloroethene	mg/kg	[NT]		[NT]		[NR]	[NR]	
bromochloromethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
chloroform	mg/kg	[NT]		[NT]		75314-4	85%	
2,2-dichloropropane	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,2-dichloroethane	mg/kg	[NT]		[NT]		75314-4	85%	
1,1,1-trichloroethane	mg/kg	[NT]		[NT]		75314-4	91%	
1,1-dichloropropene	mg/kg	[NT]		[NT]		[NR]	[NR]	
carbon tetrachloride	mg/kg	[NT]		[NT]		[NR]	[NR]	
dibromomethane	mg/kg	[NT]		[NT]		[NR]	[NR]	
1,2-dichloropropane	mg/kg	[NT]		[NT]		[NR]	[NR]	
trichloroethene	mg/kg	[NT]		[NT]		75314-4	82%	

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QUALITY CONTROL VHC's in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
bromodichloromethane	mg/kg	[NT]	[NT]	75314-4	86%
trans-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
dibromochloromethane	mg/kg	[NT]	[NT]	75314-4	79%
1,2-dibromoethane	mg/kg	[NT]	[NT]	[NR]	[NR]
tetrachloroethene	mg/kg	[NT]	[NT]	75314-4	90%
1,1,1,2-tetrachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
chlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
bromoform	mg/kg	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
bromobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
hexachlorobutadiene	mg/kg	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluorometha	%	[NT]	[NT]	75314-4	100%
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	75314-4	91%
Surrogate Toluene-d8	%	[NT]	[NT]	75314-4	97%
Surrogate 4-Bromofluorobenzene	%	[NT]	[NT]	75314-4	92%
QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-11	29/06/2012 29/06/2012	LCS-3	28/06/2012
vTRHC6 - C9	mg/kg	75314-11	<25 <25	LCS-3	93%
Benzene	mg/kg	75314-11	<0.2 <0.2	LCS-3	92%
Toluene	mg/kg	75314-11	<0.5 <0.5	LCS-3	93%
Ethylbenzene	mg/kg	75314-11	<1 <1	LCS-3	91%
m+p-xylene	mg/kg	75314-11	<2 <2	LCS-3	95%
o-Xylene	mg/kg	75314-11	<1 <1	LCS-3	97%
Surrogate aaa-Trifluorotoluene	%	75314-11	91 101 RPD: 10	LCS-3	101%

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QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	75314-11	<50 <50	LCS-3	104%
TRHC ₁₅ - C ₂₈	mg/kg	75314-11	<100 <100	LCS-3	118%
TRHC ₂₈ - C ₃₆	mg/kg	75314-11	<100 <100	LCS-3	94%
Surrogate o-Terphenyl	%	75314-11	93 93 RPD: 0	LCS-3	136%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-2	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-	75314-2	28/06/2012 28/06/2012	LCS-2	28/06/2012
Naphthalene	mg/kg	75314-2	<0.1 <0.1	LCS-2	104%
Acenaphthylene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	75314-2	<0.1 <0.1	LCS-2	102%
Phenanthrene	mg/kg	75314-2	<0.1 <0.1	LCS-2	101%
Anthracene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	75314-2	<0.1 <0.1	LCS-2	108%
Pyrene	mg/kg	75314-2	<0.1 <0.1	LCS-2	108%
Benzo(a)anthracene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	75314-2	<0.1 <0.1	LCS-2	101%
Benzo(b+k)fluoranthene	mg/kg	75314-2	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	75314-2	<0.05 <0.05	LCS-2	102%
Indeno(1,2,3-c,d)pyrene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	75314-2	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	75314-2	98 98 RPD: 0	LCS-2	97%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-11	28/06/2012 28/06/2012	LCS-3	28/06/2012
HCB	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	75314-11	<0.1 <0.1	LCS-3	100%
gamma-BHC	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	75314-11	<0.1 <0.1	LCS-3	96%
Heptachlor	mg/kg	75314-11	<0.1 <0.1	LCS-3	75%
delta-BHC	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	75314-11	<0.1 <0.1	LCS-3	90%
Heptachlor Epoxide	mg/kg	75314-11	<0.1 <0.1	LCS-3	97%
gamma-Chlordane	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	75314-11	<0.1 <0.1	LCS-3	96%
Dieldrin	mg/kg	75314-11	<0.1 <0.1	LCS-3	101%
Endrin	mg/kg	75314-11	<0.1 <0.1	LCS-3	75%
pp-DDD	mg/kg	75314-11	<0.1 <0.1	LCS-3	92%
Endosulfan II	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	75314-11	<0.1 <0.1	LCS-3	89%
Methoxychlor	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	75314-11	100 99 RPD: 1	LCS-3	92%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-11	28/06/2012 28/06/2012	LCS-3	28/06/2012
Diazinon	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	75314-11	<0.1 <0.1	LCS-3	86%
Fenitrothion	mg/kg	75314-11	<0.1 <0.1	LCS-3	87%
Bromophos-ethyl	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	75314-11	<0.1 <0.1	LCS-3	78%
Surrogate TCLMX	%	75314-11	100 99 RPD: 1	LCS-3	96%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-11	28/06/2012 28/06/2012	LCS-3	28/06/2012
Arochlor 1016	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	75314-11	<0.1 <0.1	LCS-3	113%
Arochlor 1260	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	75314-11	100 99 RPD: 1	LCS-3	93%
QUALITY CONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	29/06/2012 29/06/2012	LCS-2	29/06/2012
Date analysed	-	75314-11	29/06/2012 29/06/2012	LCS-2	29/06/2012
Total Phenolics (as Phenol)	mg/kg	75314-11	<5 <5	LCS-2	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	75314-11	27/06/2012 27/06/2012	LCS-2	27/06/2012
Date analysed	-	75314-11	27/06/2012 27/06/2012	LCS-2	27/06/2012
Arsenic	mg/kg	75314-11	14 16 RPD: 13	LCS-2	90%
Cadmium	mg/kg	75314-11	<0.5 <0.5	LCS-2	99%
Chromium	mg/kg	75314-11	17 17 RPD: 0	LCS-2	95%
Copper	mg/kg	75314-11	23 23 RPD: 0	LCS-2	94%
Lead	mg/kg	75314-11	20 24 RPD: 18	LCS-2	91%
Mercury	mg/kg	75314-11	<0.1 <0.1	LCS-2	109%
Nickel	mg/kg	75314-11	5 5 RPD: 0	LCS-2	94%
Zinc	mg/kg	75314-11	29 39 RPD: 29	LCS-2	93%

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QUALITY CONTROL VTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-23	29/06/2012 29/06/2012	75314-4	29/06/2012
vTRHC ₆ - C ₉	mg/kg	75314-23	<25 <25	75314-4	88%
Benzene	mg/kg	75314-23	<0.2 <0.2	75314-4	86%
Toluene	mg/kg	75314-23	<0.5 <0.5	75314-4	85%
Ethylbenzene	mg/kg	75314-23	<1 <1	75314-4	89%
m+p-xylene	mg/kg	75314-23	<2 <2	75314-4	91%
o-Xylene	mg/kg	75314-23	<1 <1	75314-4	94%
Surrogate aaa- Trifluorotoluene	%	75314-23	92 100 RPD: 8	75314-4	94%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	75314-23	<50 <50	75314-4	83%
TRHC ₁₅ - C ₂₈	mg/kg	75314-23	<100 <100	75314-4	140%
TRHC ₂₉ - C ₃₆	mg/kg	75314-23	<100 <100	75314-4	86%
Surrogate o-Terphenyl	%	75314-23	94 97 RPD: 3	75314-4	137%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-11	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-11	28/06/2012 28/06/2012	75314-4	28/06/2012
Naphthalene	mg/kg	75314-11	<0.1 <0.1	75314-4	104%
Acenaphthylene	mg/kg	75314-11	0.3 0.4 RPD: 29	[NR]	[NR]
Acenaphthene	mg/kg	75314-11	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	75314-11	<0.1 <0.1	75314-4	107%
Phenanthrene	mg/kg	75314-11	0.5 0.5 RPD: 0	75314-4	#
Anthracene	mg/kg	75314-11	0.3 0.3 RPD: 0	[NR]	[NR]
Fluoranthene	mg/kg	75314-11	2.2 2.3 RPD: 4	75314-4	#
Pyrene	mg/kg	75314-11	2.8 2.8 RPD: 0	75314-4	#
Benzo(a)anthracene	mg/kg	75314-11	1.5 1.5 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	75314-11	1.8 1.8 RPD: 0	75314-4	#
Benzo(b+k)fluoranthene	mg/kg	75314-11	4.2 4.3 RPD: 2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	75314-11	3.0 3.1 RPD: 3	75314-4	#
Indeno(1,2,3-c,d)pyrene	mg/kg	75314-11	2.3 2.4 RPD: 4	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	75314-11	0.3 0.4 RPD: 29	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	75314-11	2.5 2.6 RPD: 4	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	75314-11	97 98 RPD: 1	75314-4	90%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-23	28/06/2012 28/06/2012	75314-4	28/06/2012
HCB	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	75314-23	<0.1 <0.1	75314-4	106%
gamma-BHC	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	75314-23	<0.1 <0.1	75314-4	106%
Heptachlor	mg/kg	75314-23	<0.1 <0.1	75314-4	98%
delta-BHC	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	75314-23	<0.1 <0.1	75314-4	96%
Heptachlor Epoxide	mg/kg	75314-23	<0.1 <0.1	75314-4	103%
gamma-Chlordane	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	75314-23	<0.1 <0.1	75314-4	103%
Dieldrin	mg/kg	75314-23	<0.1 <0.1	75314-4	110%
Endrin	mg/kg	75314-23	<0.1 <0.1	75314-4	109%
pp-DDD	mg/kg	75314-23	<0.1 <0.1	75314-4	114%
Endosulfan II	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	75314-23	<0.1 <0.1	75314-4	111%
Methoxychlor	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	75314-23	94 94 RPD: 0	75314-4	100%

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QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-23	28/06/2012 28/06/2012	75314-4	28/06/2012
Diazinon	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Dimethoate	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Ronnel	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	75314-23	<0.1 <0.1	75314-4	97%
Fenitrothion	mg/kg	75314-23	<0.1 <0.1	75314-4	103%
Bromophos-ethyl	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	75314-23	<0.1 <0.1	75314-4	97%
Surrogate TCLMX	%	75314-23	94 94 RPD: 0	75314-4	98%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-23	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-23	28/06/2012 28/06/2012	75314-4	28/06/2012
Arochlor 1016	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	75314-23	<0.1 <0.1	75314-4	113%
Arochlor 1260	mg/kg	75314-23	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%	75314-23	94 94 RPD: 0	75314-4	102%
QUALITY CONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-21	29/06/2012 29/06/2012	75314-2	29/06/2012
Date analysed	-	75314-21	29/06/2012 29/06/2012	75314-2	29/06/2012
Total Phenolics (as Phenol)	mg/kg	75314-21	<5 <5	75314-2	95%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	75314-23	27/06/2012 27/06/2012	LCS-3	27/06/2012
Date analysed	-	75314-23	27/06/2012 27/06/2012	LCS-3	27/06/2012
Arsenic	mg/kg	75314-23	58 16 RPD: 114	LCS-3	82%
Cadmium	mg/kg	75314-23	<0.5 <0.5	LCS-3	87%
Chromium	mg/kg	75314-23	11 11 RPD: 0	LCS-3	86%
Copper	mg/kg	75314-23	30 31 RPD: 3	LCS-3	85%
Lead	mg/kg	75314-23	20 64 RPD: 105	LCS-3	82%
Mercury	mg/kg	75314-23	<0.1 <0.1	LCS-3	100%
Nickel	mg/kg	75314-23	6 8 RPD: 29	LCS-3	86%
Zinc	mg/kg	75314-23	38 94 RPD: 85	LCS-3	83%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL VTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-31	27/06/2012 27/06/2012	75314-24	27/06/2012
Date analysed	-	75314-31	29/06/2012 29/06/2012	75314-24	29/06/2012
vTRHC ₆ - C ₉	mg/kg	75314-31	<25 <25	75314-24	79%
Benzene	mg/kg	75314-31	<0.2 <0.2	75314-24	78%
Toluene	mg/kg	75314-31	<0.5 <0.5	75314-24	79%
Ethylbenzene	mg/kg	75314-31	<1 <1	75314-24	76%
m+p-xylene	mg/kg	75314-31	<2 <2	75314-24	80%
o-Xylene	mg/kg	75314-31	<1 <1	75314-24	82%
Surrogate aaa- Trifluorotoluene	%	75314-31	94 95 RPD: 1	75314-24	94%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-31	27/06/2012 27/06/2012	75314-24	27/06/2012
Date analysed	-	75314-31	27/06/2012 27/06/2012	75314-24	27/06/2012
TRHC ₁₀ - C ₁₄	mg/kg	75314-31	<50 <50	75314-24	95%
TRHC ₁₅ - C ₂₈	mg/kg	75314-31	140 140 RPD: 0	75314-24	108%
TRHC ₂₉ - C ₃₆	mg/kg	75314-31	150 150 RPD: 0	75314-24	84%
Surrogate o-Terphenyl	%	75314-31	97 97 RPD: 0	75314-24	136%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	75314-31	27/06/2012 27/06/2012	75314-24	27/06/2012
Date analysed	-	75314-31	28/06/2012 28/06/2012	75314-24	28/06/2012
Naphthalene	mg/kg	75314-31	<0.1 <0.1	75314-24	102%
Acenaphthylene	mg/kg	75314-31	0.3 0.4 RPD: 29	[NR]	[NR]
Acenaphthene	mg/kg	75314-31	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	75314-31	<0.1 <0.1	75314-24	100%
Phenanthrene	mg/kg	75314-31	1.2 1.2 RPD: 0	75314-24	94%
Anthracene	mg/kg	75314-31	0.4 0.4 RPD: 0	[NR]	[NR]
Fluoranthene	mg/kg	75314-31	3.6 3.7 RPD: 3	75314-24	97%
Pyrene	mg/kg	75314-31	4.0 4.1 RPD: 2	75314-24	97%
Benzo(a)anthracene	mg/kg	75314-31	2.2 2.2 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	75314-31	2.4 2.5 RPD: 4	75314-24	97%
Benzo(b+k)fluoranthene	mg/kg	75314-31	5.0 5.1 RPD: 2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	75314-31	3.5 3.5 RPD: 0	75314-24	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	75314-31	2.1 2.2 RPD: 5	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	75314-31	0.4 0.4 RPD: 0	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	75314-31	2.2 2.2 RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl- d ₁₄	%	75314-31	97 96 RPD: 1	75314-24	92%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	75314-24	27/06/2012
Date analysed	-	[NT]	[NT]	75314-24	28/06/2012
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	75314-24	100%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	75314-24	97%
Heptachlor	mg/kg	[NT]	[NT]	75314-24	74%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	75314-24	91%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	75314-24	97%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	75314-24	99%
Dieldrin	mg/kg	[NT]	[NT]	75314-24	102%
Endrin	mg/kg	[NT]	[NT]	75314-24	75%
pp-DDD	mg/kg	[NT]	[NT]	75314-24	102%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	75314-24	90%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	75314-24	91%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	75314-24	27/06/2012
Date analysed	-	[NT]	[NT]	75314-24	28/06/2012
Diazinon	mg/kg	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	[NT]	[NT]	75314-24	86%
Fenitrothion	mg/kg	[NT]	[NT]	75314-24	76%
Bromophos-ethyl	mg/kg	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	[NT]	[NT]	75314-24	73%
Surrogate TCLMX	%	[NT]	[NT]	75314-24	91%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	75314-24	27/06/2012
Date analysed	-	[NT]	[NT]	75314-24	28/06/2012
Arochlor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	[NT]	[NT]	75314-24	111%
Arochlor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	75314-24	88%
QUALITY CONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	75314-22	29/06/2012
Date analysed	-	[NT]	[NT]	75314-22	29/06/2012
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	75314-22	84%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	75314-31	27/06/2012 27/06/2012	75314-4	27/06/2012
Date analysed	-	75314-31	27/06/2012 27/06/2012	75314-4	27/06/2012
Arsenic	mg/kg	75314-31	64 70 RPD: 9	75314-4	71%
Cadmium	mg/kg	75314-31	<0.5 <0.5	75314-4	79%
Chromium	mg/kg	75314-31	19 24 RPD: 23	75314-4	82%
Copper	mg/kg	75314-31	34 27 RPD: 23	75314-4	93%
Lead	mg/kg	75314-31	120 120 RPD: 0	75314-4	79%
Mercury	mg/kg	75314-31	<0.1 <0.1	75314-4	101%
Nickel	mg/kg	75314-31	7 11 RPD: 44	75314-4	77%
Zinc	mg/kg	75314-31	270 280 RPD: 4	75314-4	#

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	[NT]	[NT]	75314-24	27/06/2012
Date analysed	-	[NT]	[NT]	75314-24	27/06/2012
Arsenic	mg/kg	[NT]	[NT]	75314-24	77%
Cadmium	mg/kg	[NT]	[NT]	75314-24	85%
Chromium	mg/kg	[NT]	[NT]	75314-24	88%
Copper	mg/kg	[NT]	[NT]	75314-24	101%
Lead	mg/kg	[NT]	[NT]	75314-24	79%
Mercury	mg/kg	[NT]	[NT]	75314-24	92%
Nickel	mg/kg	[NT]	[NT]	75314-24	82%
Zinc	mg/kg	[NT]	[NT]	75314-24	79%

Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Acid Extractable Metals in Soil: # Poor spike recovery was obtained for this sample. This is due to the non-homogeneous nature of this particular element in this particular sample. However, an acceptable recovery was obtained for the LCS.

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteriae has been exceeded for 75314-2 for Ni and Zn. Therefore a triplicate result has been issued as laboratory sample number 75314-34.

Acid Extractable Metals in Soil: The laboratory RPD acceptance criteriae has been exceeded for 75314-23 for As, Pb and Zn. Therefore a triplicate result has been issued as laboratory sample number 75314-35.

PCB's in soil:PQL has been raised due to interference from analytes(other than those being tested) in the sample/s.

PAH's in soil:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Douglas Partners
96 Hermitage Rd
West Ryde NSW 2114

ph: 02 9809 0666

Fax: 02 9809 4095

Attention: Peter Oitmaa

Sample log in details:

Your reference:

45153.02, Sydney Olympic Park

Envirolab Reference:

75314

Date received:

26/06/2012

Date results expected to be reported:

3/07/12

Samples received in appropriate condition for analysis:

YES

No. of samples provided

33 Soil

Turnaround time requested:

Standard

Temperature on receipt

Cool

Cooling Method:

Ice Pack

Sampling Date Provided:

YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst

ph: 02 9910 6200 fax: 02 9910 6201

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

CHAIN OF CUSTODY

P1/3

To: **Envirolab Services**
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au Job No: 75314

SYDNEY OLYMPIC PARK
45153.02 Sampler: SB/MM
Peter Oitmaa Mob. Phone: 0412 574 518
peter.oitmaa@douglaspartners.com.au
Std Hg Lab Quote No.

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Date Received: 26/6/12

Time Received: 16:15
Received by: AW
Temp: Cool/Ambient
Cooling: Cap/Coolant
Security: (None/Broken/None)

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container Type	Analytes						TCH EC PH	Foreign Materials	Asbestos	As, Cd, Cr, Cu, Hg, Ni, Pb, Zn	PAH	OCP PCB OPP	Photo I	Combo 89		
						BTEX TRH	PAH	OCP PCB OPP	Photo I	As, Cd, Cr, Cu, Hg, Ni, Pb, Zn	Asbestos										
G1	0.2-0.3	1	20/6	S	Jar														Combo 89		
G1	0.8-0.9	2	"	"	Jar+Bag															+ extras	
G2	0.1	3	23/6	"	Jar																
G2	0.5	4	"	"	Jar+Bag															+ extras	
G3	0.5	5	"	"	Jar+Bag															+ extras	
G3	1.0	6	"	"	Jar																
G4	0.2	7	"	"	Jar+Bag																
G4	0.9	8	"	"	Jar																
G5	1.0	9	"	"	Jar+Bag																
G5	1.5	10	"	"	Jar																
C1	0.5-0.6	11	20/6	"	Jar																
C1	1.3-1.4	12	"	"	Jar+Bag																

Phone: (02) 9809 0666
Fax: (02) 9809 4095

Lab Report No. Address: 96 Hermitage Road, West Ryde 2114

Send Results to: Douglas Partners Date & Time: 26/6 1500hrs Received By: Alex W. Date & Time: 26/6/12 16:15

Relinquished by: P. Oitmaa Signed: PLO Date & Time: Received By: Date & Time:

Relinquished by: Signed: Date & Time:

CHAIN OF CUSTODY

Project Name: SYDNEY OLYMPIC PARK
Project No: 45153.02 Sampler: SB/MM
Project Mgr: Peter Oitmaa Mob. Phone: 0412 574 518
Email: peter.oitmaa@douglaspartners.com.au
Date Required: Std + 1g Lab Quote No.

To: EnviroLab Services
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au

P2/3

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container type	Analytes								Notes	
						BTEX TRH	PAH	ACP PCB OPP	Phenol	As, Cd, Cr, Cu, Hg, Ni, Pb, Zn	Asbestos	TCH EC pH	Foreign materials		
C2	0.9-1.0	13	26/6	S	Jar									Combo 89	
C2	1.5-1.6	14	"	"	Jar+bag										+ extras
C3	0.4-0.5	15	20/6	"	Jar										
C3	1.4-1.5	16	"	"	Jar+bag										+ extras
C4	0.1	17	23/6	"	Jar										
C4	0.5	18	23/6	"	Jar										
C5A	0.4-0.5	19	26/6	"	Jar										
C5A	1.9-2.0	20	"	"	Jar+bag										+ extras
C6	0.1	21	23/6	"	Jar										
C6	0.5	22	"	"	Jar+bag										+ extras
T1	0.3-0.4	23	20/6	"	Jar										
T1	1.7-1.8	24	"	"	Jar										

Lab Report No.

Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Phone: (02) 9809 0666

Relinquished by: P. Oitmaa Signed: [Signature] Date & Time: 26/6/2006 Received By: Alex W. Date & Time: 26/6/12 16:15

Relinquished by: Signed: Date & Time: Received By: Date & Time:

CHAIN OF CUSTODY

Project Name: SYDNEY OLYMPIC PARK
Project No: 45153.02 Sampler:
Project Mgr: Peter Oitmaa Mob. Phone: 0412 574 518
Email: peter.oitmaa@douglaspartners.com.au
Date Required: Std + 1a Lab Quote No.

To: Envirolab Services
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au

P3/3

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type S - soil W - water	Container type	Analytes								Notes
						BTEX TRH	PAH	OCF PCB OPP	Phenol	As, Cd, Cr, Cu, Hg, Ni, Pb, Zn	Asbestos	TCH EC pH	Foreign materials	
T2	1.0-1.1	25	20/6	S	Jar									Combo 8a
T3	1.2-1.3	26	"	"	"									
T4	0.5	27	23/6	"	"									
T4	1.0	28	"	"	"									
BD1		29	"	"	"									Combo 3
BD2		30	"	"	"									
BD3		31	"	"	"									
TB		32	19/6	"	"	✓								
TS		33	"	"	"	✓								

Lab Report No. Phone: (02) 9809 0666

Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114 Fax: (02) 9809 4095

Relinquished by: P. Oitmaa Signed: [Signature] Received By: Alex W. Date & Time: 26/6/12 16:15

Relinquished by: Signed: Received By: Date & Time:



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS

75314-A

Client:

Douglas Partners
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Peter Oitmaa

Sample log in details:

Your Reference:	<u>45153.02, Sydney Olympic Park</u>
No. of samples:	Additional testing on soils
Date samples received / completed instructions received	26/06/2012 / 09/07/12

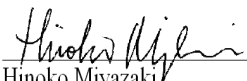
Analysis Details:

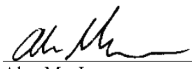
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 12/07/12 / 3/08/12
Date of Preliminary Report: Not Issued
NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:


Hinoko Miyazaki
Chemist


Alex MacLean
Chemist



Envirolab Reference: 75314-A
Revision No: R 01

PAHs in TCLP (USEPA 1311)						
Our Reference:	UNITS	75314-A-1	75314-A-3	75314-A-4	75314-A-5	75314-A-11
Your Reference	-----	G1	G2	G2	G3	C1
Depth	-----	0.2-0.3	0.1	0.5	0.5	0.5-0.6
Date Sampled		20/06/2012	23/06/2012	23/06/2012	23/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	6.7	7.0	7.1	6.3	7.0
pH of soil for fluid # determ. (acid)	pH units	1.5	1.6	1.6	1.6	1.7
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9	4.9	4.9
Date extracted	-	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Date analysed	-	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Naphthalene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Surrogate p-Terphenyl-d14	%	101	108	105	112	113

PAHs in TCLP (USEPA 1311)						
Our Reference:	UNITS	75314-A-15	75314-A-16	75314-A-18	75314-A-23	75314-A-25
Your Reference	-----	C3	C3	C4	T1	T2
Depth	-----	0.4-0.5	1.4-1.5	0.5	0.3-0.4	1.0-1.1
Date Sampled		20/06/2012	20/06/2012	23/06/2012	20/06/2012	20/06/2012
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.5	7.0	7.2	7.9	7.5
pH of soil for fluid # determ. (acid)	pH units	1.7	1.7	1.6	1.6	1.6
Extraction fluid used	-	1	1	1	1	1
pH of final Leachate	pH units	5.0	4.9	4.9	4.9	4.9
Date extracted	-	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Date analysed	-	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Naphthalene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Acenaphthene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Fluorene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Phenanthrene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Anthracene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Fluoranthene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Pyrene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Chrysene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	[NA]	<0.002	<0.002
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	[NA]	<0.001	<0.001
Surrogate p-Terphenyl-d14	%	101	118	[NA]	99	119

PAHs in TCLP (USEPA 1311)				
Our Reference:	UNITS	75314-A-26	75314-A-27	75314-A-28
Your Reference	-----	T3	T4	T4
Depth	-----	1.2-1.3	0.4	1.0
Date Sampled		20/06/2012	23/06/2012	23/06/2012
Type of sample		Soil	Soil	Soil
pH of soil for fluid# determ.	pH units	7.6	7.4	6.9
pH of soil for fluid # determ. (acid)	pH units	1.7	1.6	1.7
Extraction fluid used	-	1	1	1
pH of final Leachate	pH units	4.9	4.9	4.9
Date extracted	-	10/07/2012	10/07/2012	10/07/2012
Date analysed	-	10/07/2012	10/07/2012	10/07/2012
Naphthalene in TCLP	mg/L	<0.001	<0.001	[NA]
Acenaphthylene in TCLP	mg/L	<0.001	<0.001	[NA]
Acenaphthene in TCLP	mg/L	<0.001	<0.001	[NA]
Fluorene in TCLP	mg/L	<0.001	<0.001	[NA]
Phenanthrene in TCLP	mg/L	<0.001	<0.001	[NA]
Anthracene in TCLP	mg/L	<0.001	<0.001	[NA]
Fluoranthene in TCLP	mg/L	<0.001	<0.001	[NA]
Pyrene in TCLP	mg/L	<0.001	<0.001	[NA]
Benzo(a)anthracene in TCLP	mg/L	<0.001	<0.001	[NA]
Chrysene in TCLP	mg/L	<0.001	<0.001	[NA]
Benzo(b+k)fluoranthene in TCLP	mg/L	<0.002	<0.002	[NA]
Benzo(a)pyrene in TCLP	mg/L	<0.001	<0.001	[NA]
Indeno(1,2,3-c,d)pyrene - TCLP	mg/L	<0.001	<0.001	[NA]
Dibenzo(a,h)anthracene in TCLP	mg/L	<0.001	<0.001	[NA]
Benzo(g,h,i)perylene in TCLP	mg/L	<0.001	<0.001	[NA]
Surrogate p-Terphenyl-d ₁₄	%	86	123	[NA]

Metals in TCLP USEPA 1311			
Our Reference:	UNITS	75314-A-18	75314-A-28
Your Reference	-----	C4	T4
Depth	-----	0.5	1.0
Date Sampled		23/06/2012	23/06/2012
Type of sample		Soil	Soil
Date extracted	-	10/07/2012	10/07/2012
Date analysed	-	10/07/2012	10/07/2012
Arsenic in TCLP	mg/L	0.06	[NA]
Lead in TCLP	mg/L	[NA]	<0.03

Method ID	Methodology Summary
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311.
EXTRACT.7	Toxicity Characteristic Leaching Procedure (TCLP).
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA 21st ED, 4500-H+.
Org-012 subset	Leachates are extracted with Dichloromethane and analysed by GC-MS.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Org-012	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHsinTCLP (USEPA 1311)						Base II Duplicate II %RPD		
Date extracted	-			10/07/2012	[NT]	[NT]	LCS-W2	10/07/2012
Date analysed	-			10/07/2012	[NT]	[NT]	LCS-W2	10/07/2012
Naphthalene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	108%
Acenaphthylene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Acenaphthene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluorene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	110%
Phenanthrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	105%
Anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Fluoranthene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	104%
Pyrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	109%
Benzo(a)anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Chrysene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	108%
Benzo(b+k)fluoranthene in TCLP	mg/L	0.002	Org-012 subset	<0.002	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	LCS-W2	109%
Indeno(1,2,3-c,d)pyrene -TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene in TCLP	mg/L	0.001	Org-012 subset	<0.001	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012	114	[NT]	[NT]	LCS-W2	104%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL Metals in TCLP USEPA1311	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base Duplicate %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			10/07/2012	75314-A-18	10/07/2012 10/07/2012	LCS-W1	10/07/2012
Date analysed	-			10/07/2012	75314-A-18	10/07/2012 10/07/2012	LCS-W1	10/07/2012
Arsenic in TCLP	mg/L	0.05	Metals-020 ICP-AES	<0.05	75314-A-18	0.06 <0.05	LCS-W1	118%
Lead in TCLP	mg/L	0.03	Metals-020 ICP-AES	<0.03	[NT]	[NT]	LCS-W1	109%
QUALITY CONTROL Metals in TCLP USEPA1311	UNITS	Dup. Sm#		Duplicate Base + Duplicate + %RPD		Spike Sm#	Spike % Recovery	
Date extracted	-	[NT]		[NT]		75314-A-28	10/07/2012	
Date analysed	-	[NT]		[NT]		75314-A-28	10/07/2012	
Arsenic in TCLP	mg/L	[NT]		[NT]		75314-A-28	113%	
Lead in TCLP	mg/L	[NT]		[NT]		75314-A-28	106%	

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



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CERTIFICATE OF ANALYSIS

75966

Client:

Douglas Partners
96 Hermitage Rd
West Ryde
NSW 2114

Attention: Peter Oitmaa

Sample log in details:

Your Reference:	<u>45153.02, Sydney Olympic Park</u>
No. of samples:	5 Waters
Date samples received / completed instructions received	11/07/2012 / 11/07/2012

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	16/07/12 / 16/07/12
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:


Rhian Morgan
Reporting Supervisor


Nick Sarlamis
Inorganics Supervisor

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water
Date extracted	-	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	13/07/2012	13/07/2012	13/07/2012
Dichlorodifluoromethane	µg/L	<10	<10	<10
Chloromethane	µg/L	<10	<10	<10
Vinyl Chloride	µg/L	<10	<10	<10
Bromomethane	µg/L	<10	<10	<10
Chloroethane	µg/L	<10	<10	<10
Trichlorofluoromethane	µg/L	<10	<10	<10
1,1-Dichloroethene	µg/L	<1	<1	<1
Trans-1,2-dichloroethene	µg/L	<1	<1	<1
1,1-dichloroethane	µg/L	<1	<1	<1
Cis-1,2-dichloroethene	µg/L	<1	<1	<1
Bromochloromethane	µg/L	<1	<1	<1
Chloroform	µg/L	<1	4	3
2,2-dichloropropane	µg/L	<1	<1	<1
1,2-dichloroethane	µg/L	<1	<1	<1
1,1,1-trichloroethane	µg/L	<1	<1	<1
1,1-dichloropropene	µg/L	<1	<1	<1
Cyclohexane	µg/L	<1	12	3
Carbon tetrachloride	µg/L	<1	<1	<1
Benzene	µg/L	<1	<1	<1
Dibromomethane	µg/L	<1	<1	<1
1,2-dichloropropane	µg/L	<1	<1	<1
Trichloroethene	µg/L	<1	<1	<1
Bromodichloromethane	µg/L	<1	<1	<1
trans-1,3-dichloropropene	µg/L	<1	<1	<1
cis-1,3-dichloropropene	µg/L	<1	<1	<1
1,1,2-trichloroethane	µg/L	<1	<1	<1
Toluene	µg/L	<1	2	1
1,3-dichloropropane	µg/L	<1	<1	<1
Dibromochloromethane	µg/L	<1	<1	<1
1,2-dibromoethane	µg/L	<1	<1	<1
Tetrachloroethene	µg/L	<1	<1	<1
1,1,1,2-tetrachloroethane	µg/L	<1	<1	<1
Chlorobenzene	µg/L	<1	<1	<1
Ethylbenzene	µg/L	<1	4	1
Bromoform	µg/L	<1	<1	<1
m+p-xylene	µg/L	<2	45	10
Styrene	µg/L	<1	<1	<1
1,1,2,2-tetrachloroethane	µg/L	<1	<1	<1
o-xylene	µg/L	<1	19	5
1,2,3-trichloropropane	µg/L	<1	<1	<1

VOCs in water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water
Isopropylbenzene	µg/L	<1	1	<1
Bromobenzene	µg/L	<1	<1	<1
n-propyl benzene	µg/L	<1	2	<1
2-chlorotoluene	µg/L	<1	<1	<1
4-chlorotoluene	µg/L	<1	<1	<1
1,3,5-trimethyl benzene	µg/L	<1	14	4
Tert-butyl benzene	µg/L	<1	<1	<1
1,2,4-trimethyl benzene	µg/L	<1	29	6
1,3-dichlorobenzene	µg/L	<1	<1	<1
Sec-butyl benzene	µg/L	<1	<1	<1
1,4-dichlorobenzene	µg/L	<1	<1	<1
4-isopropyl toluene	µg/L	<1	1	<1
1,2-dichlorobenzene	µg/L	<1	<1	<1
n-butyl benzene	µg/L	<1	<1	<1
1,2-dibromo-3-chloropropane	µg/L	<1	<1	<1
1,2,4-trichlorobenzene	µg/L	<1	<1	<1
Hexachlorobutadiene	µg/L	<1	<1	<1
1,2,3-trichlorobenzene	µg/L	<1	<1	<1
Surrogate Dibromofluoromethane	%	104	101	100
Surrogate toluene-d8	%	99	99	99
Surrogate 4-BFB	%	92	103	101

vTRH & BTEX in Water						
Our Reference:	UNITS	75966-1	75966-2	75966-3	75966-4	75966-5
Your Reference	-----	G1	G4	G5	BD1	R1
Date Sampled	-----	10/07/2012	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012	12/07/2012
TRHC ₆ - C ₉	µg/L	<10	180	73	110	<10
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	2	1	1	<1
Ethylbenzene	µg/L	<1	4	1	1	<1
m+p-xylene	µg/L	<2	45	10	12	<2
o-xylene	µg/L	<1	19	5	6	<1
Surrogate Dibromofluoromethane	%	104	101	100	117	116
Surrogate toluene-d8	%	99	99	99	92	96
Surrogate 4-BFB	%	92	103	101	108	104

STRH in Water (C10-C36)					
Our Reference:	UNITS	75966-1	75966-2	75966-3	75966-4
Your Reference	-----	G1	G4	G5	BD1
Date Sampled	-----	10/07/2012	10/07/2012	10/07/2012	10/07/2012
Type of sample		Water	Water	Water	Water
Date extracted	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	13/07/2012	13/07/2012	13/07/2012	13/07/2012
TRHC ₁₀ - C ₁₄	µg/L	<50	120	90	<50
TRHC ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100
TRHC ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Surrogate o-Terphenyl	%	88	80	88	83

PAHs in Water Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water	75966-4 BD1 10/07/2012 Water
Date extracted	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	13/07/2012	13/07/2012	13/07/2012	13/07/2012
Naphthalene	µg/L	<1	<1	<1	<1
Acenaphthylene	µg/L	<1	<1	<1	<1
Acenaphthene	µg/L	<1	<1	<1	<1
Fluorene	µg/L	<1	<1	<1	<1
Phenanthrene	µg/L	<1	<1	<1	<1
Anthracene	µg/L	<1	<1	<1	<1
Fluoranthene	µg/L	<1	<1	<1	<1
Pyrene	µg/L	<1	<1	<1	<1
Benzo(a)anthracene	µg/L	<1	<1	<1	<1
Chrysene	µg/L	<1	<1	<1	<1
Benzo(b+k)fluoranthene	µg/L	<2	<2	<2	<2
Benzo(a)pyrene	µg/L	<1	<1	<1	<1
Indeno(1,2,3-c,d)pyrene	µg/L	<1	<1	<1	<1
Dibenzo(a,h)anthracene	µg/L	<1	<1	<1	<1
Benzo(g,h,i)perylene	µg/L	<1	<1	<1	<1
Surrogate p-Terphenyl-d ₁₄	%	117	110	116	123

Total Phenolics in Water				
Our Reference:	UNITS	75966-1	75966-2	75966-3
Your Reference	-----	G1	G4	G5
Date Sampled	-----	10/07/2012	10/07/2012	10/07/2012
Type of sample		Water	Water	Water
Date extracted	-	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	12/07/2012	12/07/2012	12/07/2012
Total Phenolics (as Phenol)	mg/L	<0.05	<0.05	<0.05

OCP in water - low level Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water
Date extracted	-	13/07/2012	13/07/2012	13/07/2012
Date analysed	-	14/07/2012	14/07/2012	14/07/2012
HCBC	µg/L	<0.01	<0.01	<0.01
alpha-BHC	µg/L	<0.01	<0.01	<0.01
gamma-BHC	µg/L	<0.01	<0.01	<0.01
beta-BHC	µg/L	<0.01	<0.01	<0.01
Heptachlor	µg/L	<0.01	<0.01	<0.01
delta-BHC	µg/L	<0.01	<0.01	<0.01
Aldrin	µg/L	<0.01	<0.01	<0.01
Heptachlor Epoxide	µg/L	<0.01	<0.01	<0.01
gamma-Chlordane	µg/L	<0.01	<0.01	<0.01
alpha-Chlordane	µg/L	<0.01	<0.01	<0.01
Endosulfan I	µg/L	<0.01	<0.01	<0.01
pp-DDE	µg/L	<0.01	<0.01	<0.01
Dieldrin	µg/L	<0.01	<0.01	<0.01
Endrin	µg/L	<0.01	<0.01	<0.01
pp-DDD	µg/L	<0.01	<0.01	<0.01
Endosulfan II	µg/L	<0.01	<0.01	<0.01
DDT	µg/L	<0.01	<0.01	<0.01
Endrin Aldehyde	µg/L	<0.01	<0.01	<0.01
Endosulfan Sulphate	µg/L	<0.01	<0.01	<0.01
Methoxychlor	µg/L	<0.010	<0.010	<0.010
Surrogate TCLMX	%	61	70	75

OP Pesticides in water LL				
Our Reference:	UNITS	75966-1	75966-2	75966-3
Your Reference	-----	G1	G4	G5
Date Sampled	-----	10/07/2012	10/07/2012	10/07/2012
Type of sample		Water	Water	Water
Date extracted	-	13/07/2012	13/07/2012	13/07/2012
Date analysed	-	14/07/2012	14/07/2012	14/07/2012
Diazinon	µg/L	<0.01	<0.01	<0.01
Dimethoate	µg/L	<0.01	<0.01	<0.01
Chlorpyrifos-methyl	µg/L	<0.01	<0.01	<0.01
Ronnel	µg/L	<0.01	<0.01	<0.01
Chlorpyrifos	µg/L	<0.01	<0.01	<0.01
Fenitrothion	µg/L	<0.01	<0.01	<0.01
Bromophos ethyl	µg/L	<0.01	<0.01	<0.01
Ethion	µg/L	<0.01	<0.01	<0.01
Surrogate TCLMX	%	61	70	75

PCBs in Water - Low Level Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water
Date extracted	-	13/07/2012	13/07/2012	13/07/2012
Date analysed	-	14/07/2012	14/07/2012	14/07/2012
Arochlor 1016	µg/L	<0.1	<0.1	<0.1
Arochlor 1221	µg/L	<0.1	<0.1	<0.1
Arochlor 1232	µg/L	<0.1	<0.1	<0.1
Arochlor 1242	µg/L	<0.1	<0.1	<0.1
Arochlor 1248	µg/L	<0.1	<0.1	<0.1
Arochlor 1254	µg/L	<0.1	<0.1	<0.1
Arochlor 1260	µg/L	<0.1	<0.1	<0.1
Surrogate TCLMX	%	61	70	75

HM in water - dissolved Our Reference: Your Reference Date Sampled Type of sample	UNITS ----- -----	75966-1 G1 10/07/2012 Water	75966-2 G4 10/07/2012 Water	75966-3 G5 10/07/2012 Water	75966-4 BD1 10/07/2012 Water	75966-5 R1 10/07/2012 Water
Date prepared	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	12/07/2012	12/07/2012	12/07/2012	12/07/2012	12/07/2012
Arsenic-Dissolved	µg/L	1	2	1	1	<1
Cadmium-Dissolved	µg/L	<0.1	<0.1	0.3	0.3	<0.1
Chromium-Dissolved	µg/L	<1	1	<1	<1	<1
Copper-Dissolved	µg/L	5	4	3	6	<1
Lead-Dissolved	µg/L	1	1	<1	1	<1
Mercury-Dissolved	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
Nickel-Dissolved	µg/L	38	29	39	43	<1
Zinc-Dissolved	µg/L	57	41	140	180	<1

Miscellaneous Inorganics				
Our Reference:	UNITS	75966-1	75966-2	75966-3
Your Reference	-----	G1	G4	G5
Date Sampled	-----	10/07/2012	10/07/2012	10/07/2012
Type of sample		Water	Water	Water
Date prepared	-	12/07/2012	12/07/2012	12/07/2012
Date analysed	-	12/07/2012	12/07/2012	12/07/2012
Hardness	mgCaCO3 /L	270	390	160
Calcium - Dissolved	mg/L	58	51	14
Magnesium - Dissolved	mg/L	29	65	31

Method ID	Methodology Summary
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
Inorg-030	Total Phenolics - determined colorimetrically following disitillation, based upon APHA 21st ED 5530 D.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-008	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
Date extracted	-			12/07/2012	[NT]	[NT]	LCS-W1	12/07/2012
Date analysed	-			13/07/2012	[NT]	[NT]	LCS-W1	13/07/2012
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	111%
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	110%
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	101%
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	111%
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	127%
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	109%
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	107%
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	LCS-W1	107%
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NR]	[NR]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
VOCs in water						Base II Duplicate II %RPD		
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NR]	[NR]
Surrogate	%		Org-013	97	[NT]	[NT]	LCS-W1	100%
Dibromofluoromethane								
Surrogate toluene-d8	%		Org-013	92	[NT]	[NT]	LCS-W1	102%
Surrogate 4-BFB	%		Org-013	93	[NT]	[NT]	LCS-W1	95%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			12/07/2012	[NT]	[NT]	LCS-W1	12/07/2012
Date analysed	-			12/07/2012	[NT]	[NT]	LCS-W1	12/07/2012
TRHC ₆ - C ₉	µg/L	10	Org-016	<10	[NT]	[NT]	LCS-W1	100%
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	94%
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	96%
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	102%
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	LCS-W1	104%
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	LCS-W1	103%
Surrogate Dibromofluoromethane	%		Org-016	101	[NT]	[NT]	LCS-W1	111%
Surrogate toluene-d8	%		Org-016	97	[NT]	[NT]	LCS-W1	97%
Surrogate 4-BFB	%		Org-016	102	[NT]	[NT]	LCS-W1	103%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Water (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			12/07/2012	[NT]	[NT]	LCS-W2	12/07/2012
Date analysed	-			13/07/2012	[NT]	[NT]	LCS-W2	13/07/2012
TRHC ₁₀ - C ₁₄	µg/L	50	Org-003	<50	[NT]	[NT]	LCS-W2	73%
TRHC ₁₅ - C ₂₈	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	86%
TRHC ₂₈ - C ₃₆	µg/L	100	Org-003	<100	[NT]	[NT]	LCS-W2	86%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-W2	104%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Date extracted	-			12/07/2012	[NT]	[NT]	LCS-W3	12/07/2012
Date analysed	-			13/07/2012	[NT]	[NT]	LCS-W3	13/07/2012
Naphthalene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	96%
Acenaphthylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluorene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	104%
Phenanthrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	90%
Anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	95%
Pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	97%
Benzo(a)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Water						Base II Duplicate II %RPD		
Chrysene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	97%
Benzo(b+k)fluoranthene	µg/L	2	Org-012 subset	<2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	LCS-W3	114%
Indeno(1,2,3-c,d)pyrene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	µg/L	1	Org-012 subset	<1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d ₁₄	%		Org-012 subset	115	[NT]	[NT]	LCS-W3	101%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Total Phenolics in Water						Base II Duplicate II %RPD		
Date extracted	-			12/07/2012	[NT]	[NT]	LCS-W1	12/07/2012
Date analysed	-			12/07/2012	[NT]	[NT]	LCS-W1	12/07/2012
Total Phenolics (as Phenol)	mg/L	0.05	Inorg-030	<0.05	[NT]	[NT]	LCS-W1	86%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water - low level						Base II Duplicate II %RPD		
Date extracted	-			13/07/2012	[NT]	[NT]	LCS-W1	13/07/2012
Date analysed	-			14/07/2012	[NT]	[NT]	LCS-W1	14/07/2012
HCB	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
alpha-BHC	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	117%
gamma-BHC	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
beta-BHC	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	98%
Heptachlor	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	112%
delta-BHC	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
Aldrin	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	110%
Heptachlor Epoxide	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	107%
gamma-Chlordane	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
alpha-Chlordane	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
Endosulfan I	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
pp-DDE	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	122%
Dieldrin	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	111%
Endrin	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	113%
pp-DDD	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	126%
Endosulfan II	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
DDT	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	µg/L	0.01	Org-005	<0.01	[NT]	[NT]	LCS-W1	108%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OCP in water - low level						Base II Duplicate II %RPD		
Methoxychlor	µg/L	0.01	Org-005	<0.010	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-005	87	[NT]	[NT]	LCS-W1	81%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
OP Pesticides in water LL						Base II Duplicate II %RPD		
Date extracted	-			13/07/2012	[NT]	[NT]	LCS-W1	13/07/2012
Date analysed	-			14/07/2012	[NT]	[NT]	LCS-W1	14/07/2012
Diazinon	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	[NR]	[NR]
Dimethoate	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	[NR]	[NR]
Ronnel	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	LCS-W1	81%
Fenitrothion	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	LCS-W1	100%
Bromophos ethyl	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	[NR]	[NR]
Ethion	µg/L	0.01	Org-008	<0.01	[NT]	[NT]	LCS-W1	84%
Surrogate TCLMX	%		Org-008	87	[NT]	[NT]	LCS-W1	77%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Water - Low Level						Base II Duplicate II %RPD		
Date extracted	-			13/07/2012	[NT]	[NT]	LCS-W1	13/07/2012
Date analysed	-			14/07/2012	[NT]	[NT]	LCS-W1	14/07/2012
Arochlor 1016	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	LCS-W1	98%
Arochlor 1260	µg/L	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	83	[NT]	[NT]	LCS-W1	91%

Client Reference: 45153.02, Sydney Olympic Park

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
HM in water - dissolved						Base Duplicate %RPD		
Date prepared	-			12/07/2012	75966-1	12/07/2012 12/07/2012	LCS-W1	12/07/2012
Date analysed	-			12/07/2012	75966-1	12/07/2012 12/07/2012	LCS-W1	12/07/2012
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	1 1 RPD: 0	LCS-W1	100%
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	75966-1	<0.1 <0.1	LCS-W1	100%
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	<1 <1	LCS-W1	91%
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	5 6 RPD: 18	LCS-W1	93%
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	1 1 RPD: 0	LCS-W1	98%
Mercury-Dissolved	µg/L	0.05	Metals-021 CV-AAS	<0.050	75966-1	<0.050 <0.050	LCS-W1	104%
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	38 38 RPD: 0	LCS-W1	89%
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	75966-1	57 57 RPD: 0	LCS-W1	99%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorganics						Base Duplicate %RPD		
Date prepared	-			12/07/2012	75966-1	12/07/2012 12/07/2012	LCS-W1	12/07/2012
Date analysed	-			12/07/2012	75966-1	12/07/2012 12/07/2012	LCS-W1	12/07/2012
Hardness	mgCaCO ₃ /L	3		3.0	75966-1	270 270 RPD: 0	[NR]	[NR]
Calcium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	75966-1	58 59 RPD: 2	LCS-W1	101%
Magnesium - Dissolved	mg/L	0.5	Metals-020 ICP-AES	<0.5	75966-1	29 30 RPD: 3	LCS-W1	95%
QUALITY CONTROL	UNITS	Dup. Sm#		Duplicate		Spike Sm#	Spike % Recovery	
HM in water - dissolved				Base + Duplicate + %RPD				
Date prepared	-	[NT]		[NT]		75966-2	12/07/2012	
Date analysed	-	[NT]		[NT]		75966-2	12/07/2012	
Arsenic-Dissolved	µg/L	[NT]		[NT]		75966-2	100%	
Cadmium-Dissolved	µg/L	[NT]		[NT]		75966-2	88%	
Chromium-Dissolved	µg/L	[NT]		[NT]		75966-2	100%	
Copper-Dissolved	µg/L	[NT]		[NT]		75966-2	82%	
Lead-Dissolved	µg/L	[NT]		[NT]		75966-2	82%	
Mercury-Dissolved	µg/L	[NT]		[NT]		75966-2	96%	
Nickel-Dissolved	µg/L	[NT]		[NT]		75966-2	84%	
Zinc-Dissolved	µg/L	[NT]		[NT]		75966-2	120%	

Report Comments:

Asbestos ID was analysed by Approved Identifier: Not applicable for this job
 Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

Douglas Partners
96 Hermitage Rd
West Ryde NSW 2114

ph: 02 9809 0666

Fax: 02 9809 4095

Attention: Peter Oitmaa

Sample log in details:

Your reference:

45153.02, Sydney Olympic Park

Envirolab Reference:

75966

Date received:

11/07/2012

Date results expected to be reported:

16/07/12

Samples received in appropriate condition for analysis:

YES

No. of samples provided

5 Waters

Turnaround time requested:

72hr

Temperature on receipt

Cool

Cooling Method:

Ice Pack

Sampling Date Provided:

YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst

ph: 02 9910 6200 fax: 02 9910 6201

email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au



CHAIN OF CUSTODY

Project Name: Sydney Olympic Park
Project No: 45153.02
Project Mgr: Peter Oitmaa
Email: peter.oitmaa@douglaspartners.com.au
Date Required: 3 day +/9
Lab Quote No: Lab Quote No.

To: **Envirolab Services**
12 Ashley Street, Chatswood NSW 2067
Attn: Tania Notaras
Phone: 02 9910 6200 Fax: 02 9910 6201
Email: tnotaras@envirolabservices.com.au

Sample ID	Sample Depth	Lab ID	Sampling Date	Sample Type	Container type	Analytes							Notes
						TRH BTEX	PAM	OCF OPP PCB	Phenol	VOC	8 Metals As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	Hardness	
G1	N/A	1	10/7	W	Various								Low level
G4		2											OCF + OPP + PCB
G5		3											
B01		4											
R1		5				✓					✓		
													EnviroLab Services 12 Ashley St Chatswood NSW 2067 Ph: (02) 9910 6200
													Job No: 75966
													Date Received: 11/7/12
													Time Received: 15:50
													Received by: J. Maing
													Temp: Cool Ambient
													Cooling: Not Applicable
													Security: Intact Token/None

Lab Report No.
 Send Results to: Douglas Partners Address: 96 Hermitage Road, West Ryde 2114
 Relinquished by: P. D. [Signature] Signed: [Signature] Date & Time: 11/7
 Relinquished by: Signed: Date & Time:

Phone: (02) 9809 0666
Fax: (02) 9809 4095

Date & Time: 11/7/2012 15:50